

KS-20842 "SENTRY*" PUBLIC TELEPHONE ENCLOSURE

SINGLE AND DOUBLE

IDENTIFICATION AND INSTALLATION

CONTENTS	PAGE	CONTENTS	PAGE
1. GENERAL	2	B. KS-20842, List 42L Mounting	14
2. IDENTIFICATION	11	C. KS-20842, List 42A Mounting	14
KS-20842, LIST 30 SHELF (Fig. 1)	11	D. KS-20842, List 42AL Mounting	14
HOUSING ASSEMBLIES	11	E. KS-20842, List 45 Mounting (Fig. 11)	14
A. KS-20842, List 31 Housing Assembly (Fig. 2 and 3)	11	F. KS-20842, List 45L Mounting	15
B. KS-20842, List 31A Housing Assembly (Fig. 4)	11	WALL PLATE	15
C. KS-20842, List 33 Housing Assembly (Fig. 5)	11	KS-20842, List 47 Wall Plate (Fig. 12)	15
D. KS-20842, List 35A Housing Assembly (Fig. 6)	12	BASE ASSEMBLIES	15
POSTS AND POST-BASE	12	A. KS-20842, List 50 (A&M Only) Regular Base	15
A. KS-20842, List 40 Post (A&M Only)	12	B. KS-20842, List 51 (A&M Only) Short Base	15
B. KS-20842, List 41 Post (A&M Only)	13	C. KS-20842, List 52 (A&M Only) Buried Base	15
C. KS-20842, List 43 Post (A&M Only)	13	D. KS-20842, List 152 Buried Base (Fig. 14)	18
D. KS-20842, List 141 Post-Base (Fig. 7)	13	E. KS-21976, List 1 Foundation	18
E. KS-20842, List 143 Post-Base (Fig. 7)	13	F. KS-21976, List 11 Foundation (Fig. 15)	18
F. KS-20842, List 144 Post-Base (Fig. 9)	14	ORDERING (See Table A)	21
MOUNTINGS	14	3. INSTALLATION	21
A. KS-20842, List 42 Mounting (Fig. 10)	14	BASE ASSEMBLIES	23

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CONTENTS	PAGE
List 152 Buried Base, List 141, 143, or 144 Post-Base (Fig. 21)	28
POST ASSEMBLIES	29
MOUNTINGS AND WALL PLATES	34
SHELF ASSEMBLY	35
HOUSING ASSEMBLIES	37

1. GENERAL

1.01 This section contains information on single and double KS-20842 SENTRY public telephone enclosure. Refer to Sections 508-452-101 for cluster mounting arrangements, 508-452-102 for maintenance information, and 508-452-103 for associated miscellaneous apparatus.

1.02 The reasons for reissuing this section are listed below. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

- Restructure section into separate layers, paragraph 1.01
- Add information on Lists 31A, 42A, 42AL, 62, 63, 112, 113, 114, 115, 116, 117, 144, 144L, 171A, 205A, and 206A, Table A
- Add 10A coinless telephone set used with these mountings.

1.03 The SENTRY public telephone enclosures is an indoor-outdoor, vandal-resistant unit, designed to provide security for 1-type coin and 10A coinless telephone sets. The 10A requires that a KS-22171, List 1 adapter be installed.

1.04 A variety of enclosures are available and can be provided for walk-up, drive-up, or walk-in service (Fig. 1 through 6).

1.05 The basic components for a complete installation are:

- Post, Post-Base, or Wall Mounting
- Housing or Shelf.

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

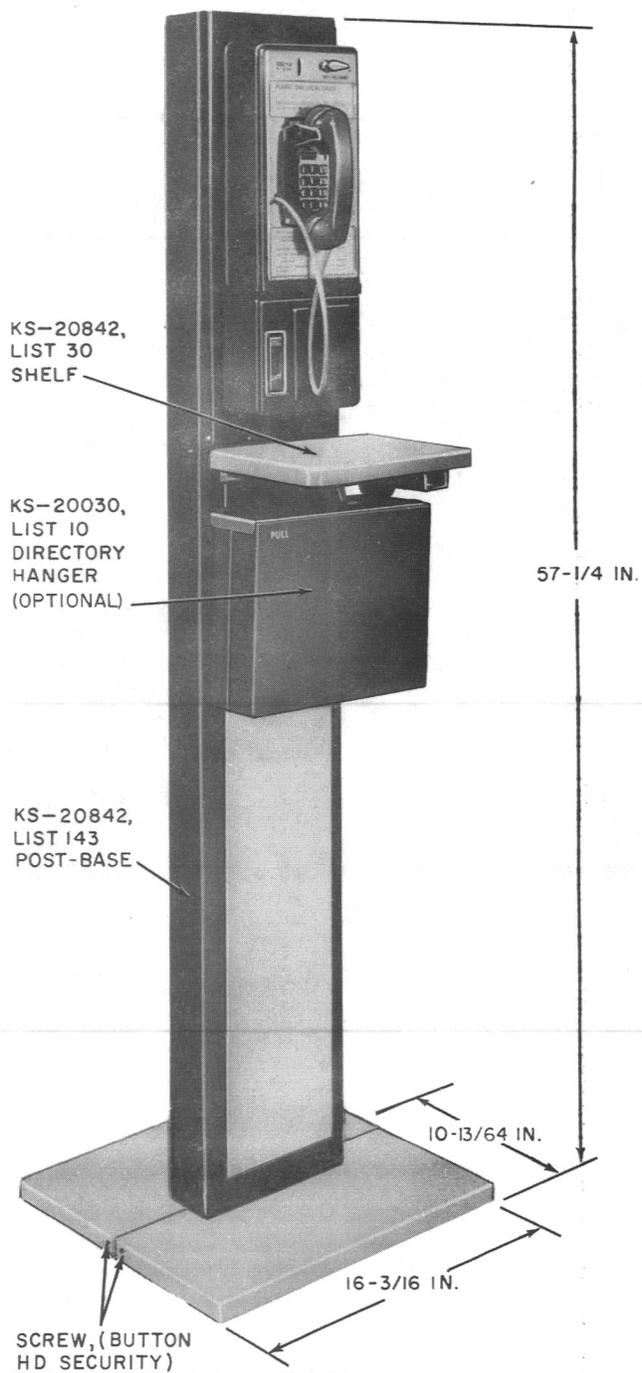


Fig. 1—SENTRY Public Telephone Enclosure With List 30 Shelf



Fig. 2—List 31 Housing Mounted (Wall)

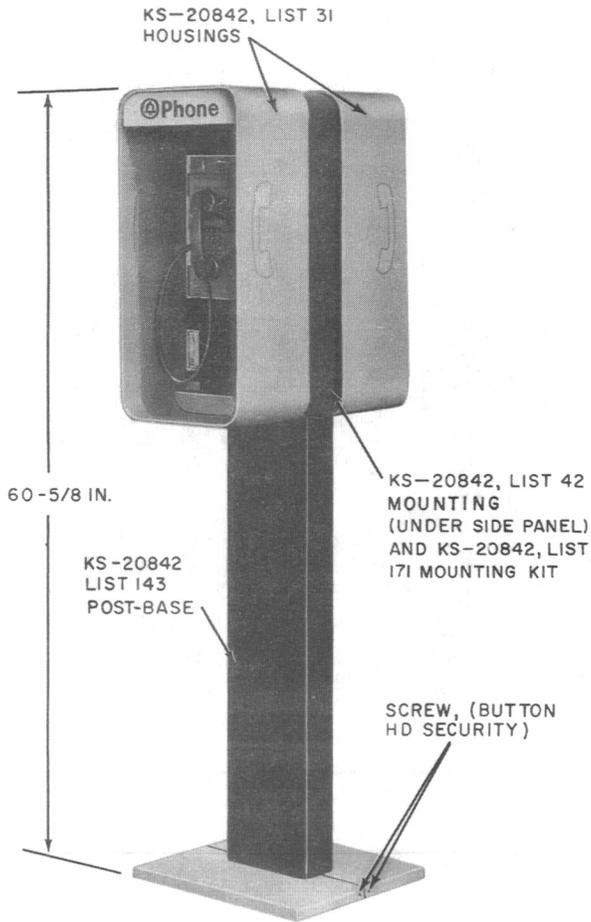
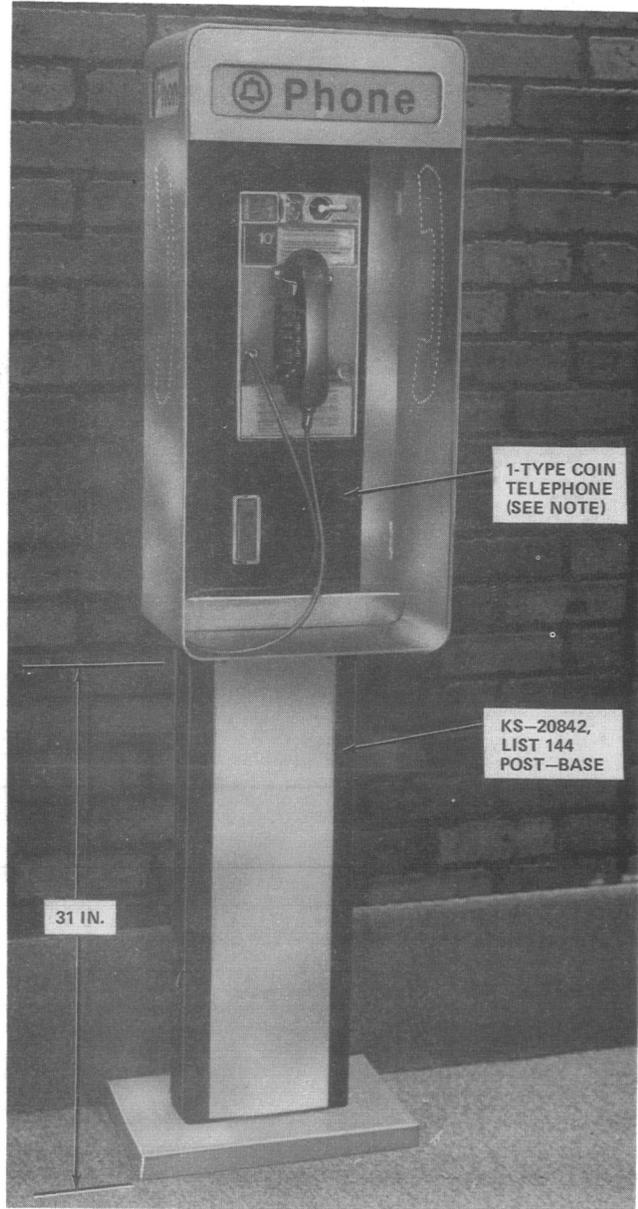


Fig. 3—Two List 31 Housings Back-to-Back



NOTE:
10A COINLESS TELEPHONE SET CAN ALSO BE USED .
A KS-22171, LIST 1 ADAPTER ASSEMBLY MUST BE
INSTALLED, SEE SECTION 506-500-100.

Fig. 4—List 31A Housing Post-Base Mounted

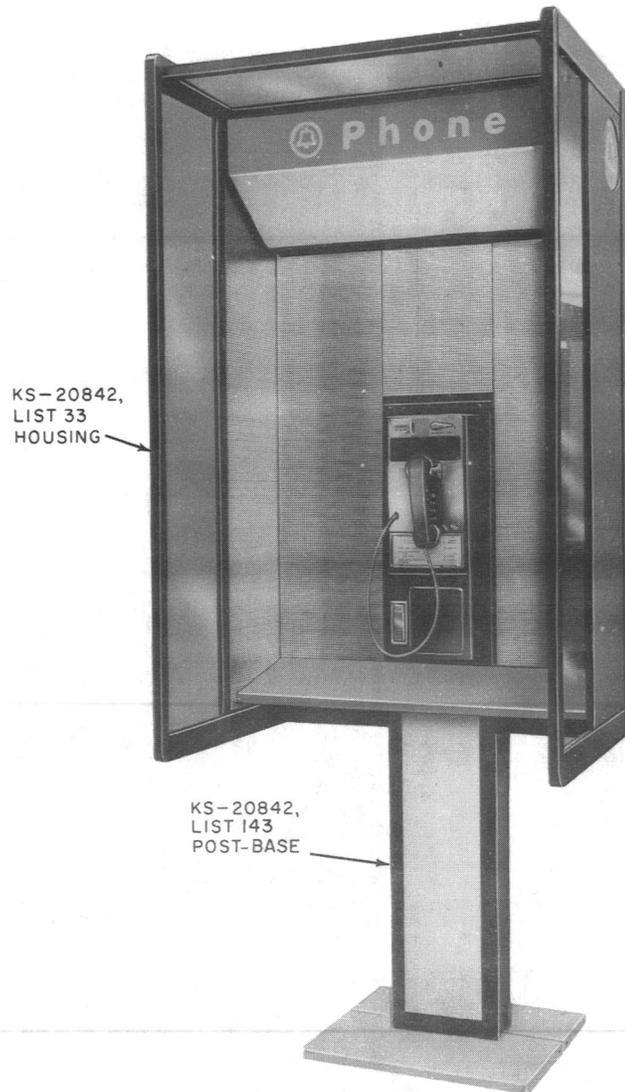


Fig. 5—List 33 Housing, Post-Base Mounted



Fig. 6—List 35A Housing—Mounting (Wall)

TABLE A

BASIC KS-20842 ARRANGEMENT AND COMPONENTS

ARRANGEMENT OR COMPONENT LIST NO.	DESCRIPTION	HOUSING OR PANEL FINISH	REPLACED BY
4	List 31 Housing, List 42 Mounting	List 60 or List 67	—
13	List 33 Housing, List 45 Mounting	List 64, List 65, or List 67	—
30	Shelf, Used Indoors Where No Enclosures is Provided	—	—
31	Housing, Used Indoors and Outdoors, Also Wall Mountings	List 60 or List 67	—
31A	Housing, Used Indoors and Outdoor, Also Wall Mounting		—
33	Housing (Universal), Used Indoors and Outdoors, Also Wall Mountings	List 64, List 65, or List 67	—
35A	Housing (Intermediate) Used Indoors and Outdoors, Also Wall Mountings	List 60 or List 61	—
40*	Post, For Walk-Up or Walk-In Service (66-Inch Coin Slot Height)	—	—
41*	Post For Drive-Up Service (48-Inch Coin Slot Height)		List 141 Post-Base (Drive-Up)
41L*	Post For Drive-Up Service (48-Inch Coin Slot Height), KS-19261, List 4 Light Control Unit		List 141L Post-Base (Drive-Up)
42	Mounting For List 31 Housing		—
42L	Mounting For List 31 Housing, KS-19261, List 5 Light Control Unit		—
42A	Mounting for List 31A Housing		—
42AL	Mounting for List 31A Housing, KS-19261, List 5 Light Control Unit		—
43*	Post, Universal (54-Inch Coin Slot Height)		List 143 Post-Base (Universal)
43L*	Post, Universal (54-Inch Coin Slot Height), KS-19261, List 4 Light Control Unit	List 143L Post-Base (Universal)	
45	Mounting, For List 33 and List 35A Housings	—	—
45L	Mounting, For List 33 and List 35A Housings, KS-19261, List 5 Light Control Unit		—
47	Wall Plate, For Use With List 35A Housing		—
50*	Base, Regular		—
51*	Base, Short		—
52*	Base, Buried		List 152 Buried Base

*A&M Only.

TABLE A (Contd)

BASIC KS-20842 ARRANGEMENT AND COMPONENTS

ARRANGEMENT OR COMPONENT LIST NO.	DESCRIPTION	HOUSING OR PANEL FINISH	REPLACED BY
60	Finish, Clear		—
61	Finish, Black	—	—
62	Finishing Strip Kit Wall Mounted List 35A Housing		—
63	Finishing Strip Kit (Back-To-Back List 35A Housing)		—
64	Blue Panels — Black Frame		—
65	Blue Panels — Clear Frame	—	—
67	Bronze Panels — Black Frame		—
68	Bronze Panels — Clear Frame		—
71*	Mounting Kit, For Mounting List 31 Housings Back-To-Back	—	List 171 Mounting Kit
73	Mounting Kit, For Multiple List 33 Housings, Side-By-Side	—	—
74	Mounting Kit for Multiple List 35A Housings, Side-By-Side	—	—
78*	Kit (Bolts and Anchors For List 50 and List 51 Bases)	—	List 178 Kit
80A	List 35A Housing, List 45 Mounting, List 47 Wall Plate, and List 62 Finish		—
81A	List 35A Housing, List 45 Mounting		—
95*	Mounting Kit For List 35 and List 35A Housings	—	Mounting Kit For List 35 and List 35A Housing (List 195)
112	Charge-a-Call Sign, List 31 Housing	—	—
113	Charge-a-Call Sign, List 31A Housing	—	—
114	Charge-a-Call Sign, List 32, List 34 (A&M Only) Housing	—	—
115	Charge-a-Call Sign, List 33 Housing	—	—
116	Charge-a-Call Sign, List 35 (A&M Only) List 35A Housings (MFG Prior to 10-80)	—	—
117	Charge-a-Call Sign, List 35 (A&M Only) List 35A Housing (MFG After 10-80)	—	—

*A&M Only.

TABLE A (Contd)

BASIC KS-20842 ARRANGEMENT AND COMPONENTS

ARRANGEMENT OR COMPONENT LIST NO.	DESCRIPTION	HOUSING OR PANEL FINISH	REPLACED BY
141	Post-Base, Drive-Up (48-inch Coin Slot Height)		—
141L	Post-Base, Drive-Up (48-Inch Coin Slot Height) KS-19261, List 4 Light Control Unit		—
143	Post-Base Universal (54-Inch Coin Slot Height)		—
143L	Post-Base, Drive-Up (54-Inch Coin Slot Height) KS-19261, List 4 Light Control Unit		—
144	Post-Base, (54-Inch Coin Slot Height) Flush MTG		—
144L	Post-Base, (54-Inch Coin Slot Height) Flush MTG KS-19261, List 4 Light Control Unit	—	—
152	Base (Buried)	—	—
171	Mounting Kit (For Back-To-Back List 31 Housing)		—
171A	Mounting Kit (For Back-To-Back List 31A Housing)		—
178	Mounting Kit (Bolts and Anchors) For Installing List 141, List 143, and List 144 Post-Base	—	—
195	Mounting Kit (For Back-To-Back List 35A Housings)		—
201	List 31 Housing, List 143 Post-Base (Universal)	List 60 or List 67	—
202	List 31 Housing, List 143 Post-Base (Universal), List 152 Buried Base		—
203	List 33 Housing, List 143 Post-Base (Universal)	List 64, List 65, List 67, or List 68	—
204	List 33 Housing, List 143 Post-Base (Universal) List 152 Buried Base		—
205	Two List 31 Housings, List 143 Post-Base (Universal), List 42 Mounting, List 171 Mounting Kit	—	—
205A	Two List 31A Housing, List 143 Post-Base (Universal), List 42A Mounting, List 141A Mounting Kit		—
206	Two List 31 Housings, List 143 Post-Base (Universal), List 42 Mounting, List 171 Mounting Kit, List 152 Buried Base	List 60 or List 67	—
206A	Two List 31A Housings, List 143 Post-Base (Universal), List 42A Mounting, List 171A Mounting Kit, List 152 Buried Base		—
207	List 35A Housing, List 143 Post-Base (Universal)		—
208	List 35A Housing, List 143 Post-Base (Universal), List 152 Buried Base		—
209	Two List 35A Housings, List 143 Post-Base (Universal), List 45 Mounting, List 195 Mounting Kit	List 60 or List 61	—
210	Two List 35A Housings, List 143 Post-Base (Universal), List 45 Mounting, List 152 Buried Base, List 195 Mounting Kit		—
211	Two List 33 Housings, List 143 Post-Base (Universal), List 45 Mounting, List 195 Mounting Kit	List 64, List 65, List 67, or List 68	—

TABLE B
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				•

2. IDENTIFICATION

- 2.01** The KS-20842 basic list number arrangement and components are listed in Table A.
- 2.02** Associated mounting kits are also described in Table A.
- 2.03** Refer to Section 508-452-103 for information on optional apparatus such as directory hangers, mast assembly, light control, wiring, signs, etc, used in conjunction with these enclosures.

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, List 43 universal post or List 143, 144 universal post-base 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.

HOUSING ASSEMBLIES

- 2.07** There are four different type housings available: List 31, 31A, 33, and 35A.

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

- 2.08** Intended for indoor to outdoor use; walk-up or drive-up service; can be mounted on a List 40 (A&M Only), 41 (A&M Only), 43 (A&M Only) post; List 141, 143, 144 post-base; or List 42 mounting.
- 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—3/16-inch.
- 2.10** A diffuser with the Bell System emblem and word "Phone" or "Charge-a-Call" 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 hous-

ing; however, hangers are not recommended for drive-up installations.

B. KS-20842, List 31A Housing Assembly (Fig. 4)

- 2.12** Intended for indoor or outdoor use; walk-up or drive-up service; can be mounted on a List 40 (A&M Only), 41 (A&M Only), 43 (A&M Only) post; List 141, 143, 144 post-base; or List 42A mounting.
- 2.13** Overall dimensions of the List 31A housing are:
- Height—31-1/2 inches
 - Width—14-5/8 inches
 - Depth—9-9/16 inches
 - Thickness of aluminum—3/16-inch.
- 2.14** Openings are provided at top of housing to accommodate four signs with the word "Phone" or "Charge-a-Call" on the sides and a Bell System emblem plus the word "Phone" or "Charge-a-Call" on the front and rear. These signs are sealed with rubber gaskets and held in place with threaded welded studs.

- 2.15** A clear diffuser encloses two 12-inch, 13 watt fluorescent lamps in the top of the housing.

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

C. KS-20842, List 33 Housing Assembly (Fig. 5)

- 2.17** Intended to accommodate both wheelchair and able-bodied persons; can be mounted on a List 43 post; List 143, 144 post-base; or List 45 mounting.
- 2.18** Overall dimensions of the List 33 housing are:
- Height—54-7/8 inches
 - Width—31-3/4 inches
 - Depth—24-1/4 inches.
- 2.19** The coin slot height for this facility is 54 inches from the floor.
- 2.20** This housing offers more voice privacy and weather protection than the List 31 or 31A.

SECTION 508-452-100

2.21 The List 33 is equipped with a hinged diffuser with the Bell System emblem and the word “Phone” or “Charge-a-Call” on the front edge. This diffuser covers two 24-inch, 20 watt fluorescent lamps.

2.22 The interior of the housing is acoustically treated with a perforated aluminum or stainless steel sheet backed by sound absorbent material.

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

- Refer to Table A for available finishes.

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

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

2.26 A removable panel is located above the coin telephone set.

2.27 An optional KS-21435, List 2 or a KS-20030, List 11, 12, 13 directory hanger can be used with this housing.

D. KS-20842, List 35A Housing Assembly (Fig. 6)

2.28 Intended for indoor or outdoor use. Walk-up or drive-up service, can be mounted on a List 40, 41, 43 post; List 141, 143, 144 post-base; or a List 45 mounting.

2.29 Overall dimensions of the List 35A housing are:

- Height—38-3/8 inches
- Width—21-1/4 inches
- Depth—11 inches.

2.30 The List 35A housing is an intermediate size enclosure, compared to the Lists 31, 31A, and 33 and includes the following features:

- Full width brushed stainless steel writing shelf
- Black anodized or clear aluminum frame

- Transparent, tempered glass side panels with handset symbols

- Signs “Phone” or “Charge-a-Call” on four sides—blue graphics on a white background—illuminated by the dome light fixture

- Lighted by two 14 watt fluorescent lamps

- Removable light diffuser

- Weight is 55 pounds and can be installed by one person

- Will accept KS-20030, List 11, 12, 13 or a KS-21435, List 2 directory hanger facilities

- Can be installed singly, back-to-back, or side-by-side multiple

- Slanted roof.

POSTS AND POST-BASE

2.31 There are three different posts and three different post-bases available: List 141, 143, or 144 post-base which are current and the List 40, 41, or 43 post which are A&M Only.

A. KS-20842, List 40 Post (A&M Only)

2.32 Overall dimensions of the List 40 post are:

- Length—68 inches
- Width—10 inches
- Depth—4 inches
- Thickness of the steel—1/8-inch.

2.33 The post is finished in a black textured vinyl and weighs 110 pounds.

2.34 Either the List 30 shelf or List 31, 31A, 35A housing can be installed on this post for walk-up service.

2.35 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. The 10A coinless telephone

set also can be used if a KS-22171, List 1 adapter assembly is installed.

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

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

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

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

B. KS-20842, List 41 Post (A&M Only)

2.40 Overall dimensions of the List 41 post are:

- Length—52 inches
- Width—10 inches
- Depth—4 inches
- Thickness of the steel—1/8-inch.

2.41 The post is finished in a black textured vinyl and weighs 70 pounds.

2.42 The List 31, 31A, or 35A housing can be installed on this post for drive-up service.

2.43 Other features of this post are same as the List 40 post (paragraphs 2.35 through 2.39).

C. KS-20842, List 43 Post (A&M Only)

2.44 Overall dimensions of the List 43 post are:

- Length—56-1/4 inches
- Width—10 inches
- Depth—4 inches
- Thickness of the steel—1/8-inch.

2.45 The post is finished in a black textured vinyl and weighs 75 pounds.

2.46 The List 43 post is designed to support the List 30 shelf or List 31, 31A, 33, 35A housing.

2.47 Other features of this post are same as the List 40 post (paragraphs 2.35 through 2.39).

D. KS-20842, List 141 Post-Base (Fig. 7)

2.48 This post-base is similar to the List 41 post, the difference being that the bottom of the post has a surface mount base as an integral part of the post. The top is arranged so a mast can be installed without removing an installed enclosure.

2.49 The List 31, 31A, or 35A housing can be installed on this post-base for drive-up service.

2.50 A recessed area in the upper part of the post-base provides facilities for mounting any 1-type coin telephone set. The area limits access to the lip of the set's front cover. The 10A coinless telephone set can also be used if a KS-22171, List 1 adapter assembly is installed.

2.51 Entrance holes for power and telephone wiring are provided at top and bottom of post-base for overhead or underground entrance.

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

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

2.54 Holes are provided in the post-base (Fig. 8) attaching it directly to a mounting surface or to a List 152 buried base.

E. KS-20842, List 143 Post-Base (Fig. 7)

2.55 This post-base is similar to the List 43 post, the difference being that the bottom of the post has a surface mount base as an integral part of the post. The top is arranged so a mast can be installed without removing an installed enclosure.

2.56 The List 31, 31A, 33, or 35A housing can be installed on this post-base for walk-up service.

2.57 A recessed area in the upper part of the post-base provides facilities for mounting any 1-

SECTION 508-452-100

type coin telephone set. The area limits access to the lip of the set's front cover. The 10A coinless telephone set can also be used if a KS-22171, List 1 adapter assembly is installed.

2.58 Entrance holes for power and telephone wiring are provided at top and bottom of post-base for overhead or underground entrance.

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

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

2.61 Holes are provided in the post-base (Fig. 8) for attaching it directly to a mounting surface, a List 152 buried base or KS-21976, List 11 foundation.

F. KS-20842, List 144 Post-Base (Fig. 9)

Note: The List 144 post-base is same as the List 143 post-base (paragraph 2.55 through 2.61), except the base is designed to provide a flush mounting directly against walls or other vertical surfaces.

MOUNTINGS

2.62 There are six different mountings available: Lists 42, 42L, 42A, 42AL, 45, and 45L.

A. KS-20842, List 42 Mounting (Fig. 10)

2.63 Overall dimensions of the List 42 mounting are:

- Length—29-3/8 inches
- Width—14-5/8 inches
- Depth—4 inches.

2.64 The mounting is aluminum finished in black textured vinyl paint and weighs 15 pounds.

2.65 The List 42 mounting is designed to hold a List 31 housing on a wall or on a back-to-back post installation.

2.66 A recessed area is provided for mounting any 1-type coin telephone set. The 10A coinless

telephone set also can be used if a KS-22171, List 1 adapter assembly is installed.

2.67 Entrance holes for power and telephone wiring are provided at top and bottom.

2.68 A bottom cavity allows use of a protector and electrical outlet.

B. KS-20842, List 42L Mounting

2.69 The List 42L mounting is the same as the List 42, except it is equipped with a KS-19261, List 5 light control unit.

C. KS-20842, List 42A Mounting

2.70 Overall dimensions of the List 42A mounting are:

- Length—31-1/4 inches
- Width—14-5/8 inches
- Depth—4 inches.

2.71 The mounting is aluminum finished in black textured vinyl paint and weighs 15 pounds.

2.72 The List 42A mounting is designed to hold a List 31A housing on a wall or on a back-to-back post installation.

2.73 A recessed area is provided for mounting any 1-type coin telephone set. The 10A coinless telephone set can also be used if a KS-22171, List 1 adapter assembly is installed.

2.74 Entrance holes for power and telephone wiring are provided at top and bottom.

2.75 A bottom cavity allows use of a protector and electrical outlet.

D. KS-20842, List 42AL Mounting

2.76 The List 42AL mounting is the same as the List 42A mounting, except it is equipped with a KS-19261, List 5 light control unit.

E. KS-20842, List 45 Mounting (Fig. 11)

2.77 Overall dimensions of the List 45 mounting are:

- Length—26-3/4 inches
- Width—10 inches
- Depth—4 inches.

- 2.78** The mounting is aluminum, finished in black textured vinyl paint,
- 2.79** The List 45 mounting is designed to hold a List 33 or 35A housing on a wall or on a back-to-back post installation.
- 2.80** This mounting can be used with or without a List 47 wall plate (Fig. 12).
- 2.81** A recessed area is provided for mounting any 1-type coin telephone set. The 10A coinless telephone set also can be used if a KS-22171, List 1 adapter assembly is installed.
- 2.82** Entrance holes for power and telephone wiring are provided at top and bottom.
- 2.83** A bottom cavity allows use of a protector and electrical outlet.

F. KS-20842, List 45L Mounting

- 2.84** The List 45L mounting is the same as the List 45 mounting, except it is equipped with a KS-19261, List 5 light control unit.

WALL PLATE

- 2.85** A wall plate is provided for use on dry wall construction to give additional support to wall mountings.

KS-20842, List 47 Wall Plate (Fig. 12)

- 2.86** The List 47 wall plate is designed for use with the List 45 or 45L mounting when mounting a List 35A housing with List 62 finishing strips.

BASE ASSEMBLIES

- 2.87** There are four basic assemblies: a regular List 50 (A&M Only) surface mount base, a short List 51 (A&M Only) surface mount base, a List 52 (A&M Only) buried base, and a List 152 buried base.

A. KS-20842, List 50 (A&M Only) Regular Base

- 2.88** The List 50 base is intended for use with List 40, 41, or 43 posts installed as free standing units away from any vertical surfaces.

- 2.89** Overall dimensions of the List 50 base are:

- Length—20 inches
- Width—14 inches
- Thickness—7/8-inch.

- 2.90** The base weighs approximately 70 pounds.

- 2.91** Five mounting holes are provided for securing the base to a flat mounting surface.

- 2.92** Two aluminum covers hide the mounting hardware and provide a finished appearance.

B. KS-20842, List 51 (A&M Only) Short Base

- 2.93** The List 51 short base is intended for use with back-to-back List 40, 41, or 43 post, or post mounted against a vertical surface.

- 2.94** Overall dimensions of the List 51 base are:

- Length—20 inches
- Width—11 inches
- Thickness—7/8-inch.

- 2.95** The base weighs approximately 55 pounds.

- 2.96** Five mounting holes are provided for securing the base to a flat mounting surface.

- 2.97** One aluminum cover hides the mounting hardware and provides a finished appearance.

C. KS-20842, List 52 (A&M Only) Buried Base

- 2.98** The List 52 buried base (Fig. 13) is intended to be used with the List 40, 41, or 43 posts at an installation where a proper mounting surface is not provided.

- 2.99** Overall dimensions of the List 52 base are:

- Length—10 inches
- Width—4 inches
- Weight—24 inches.

- 2.100** The base weighs approximately 32 pounds.

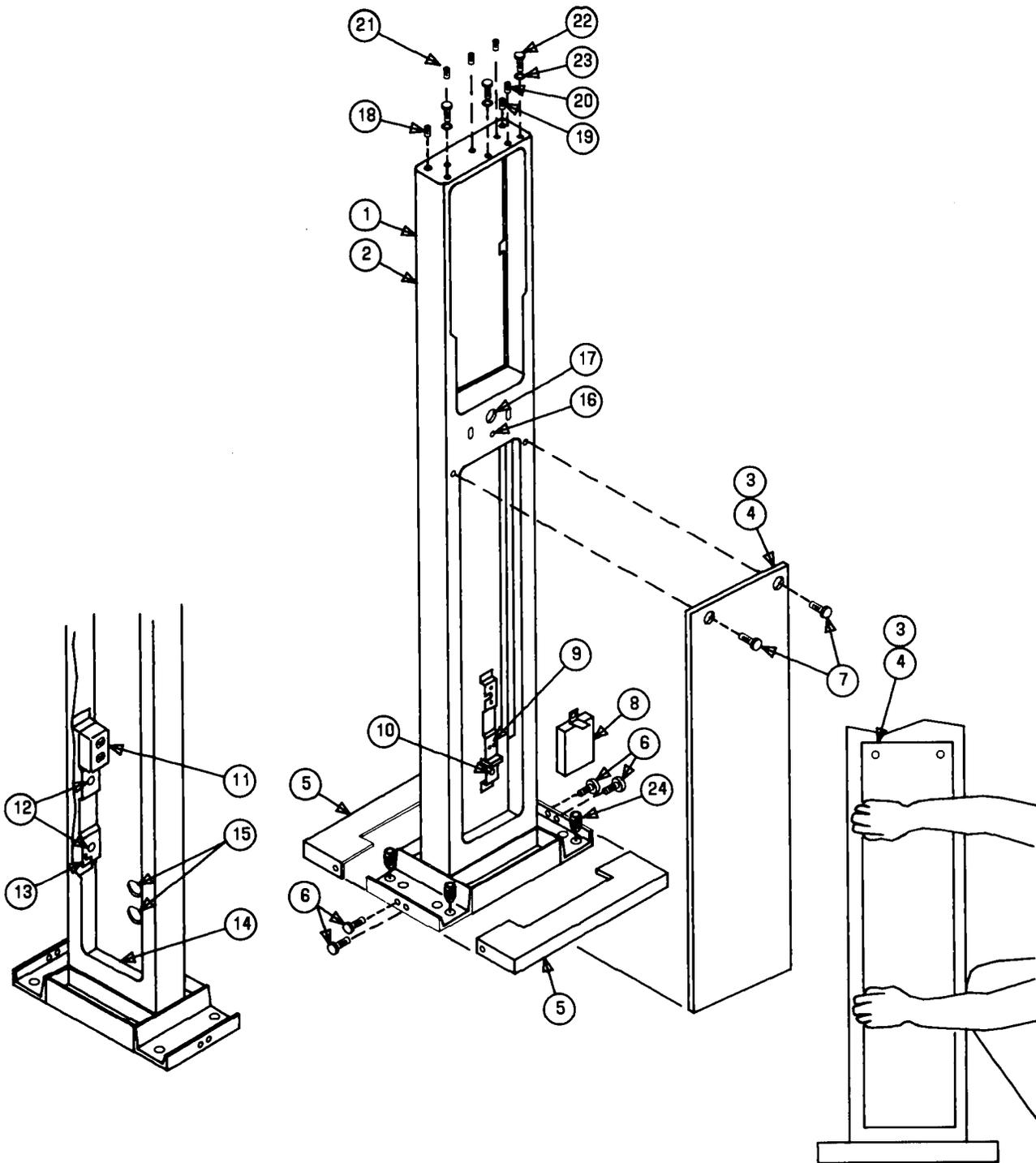
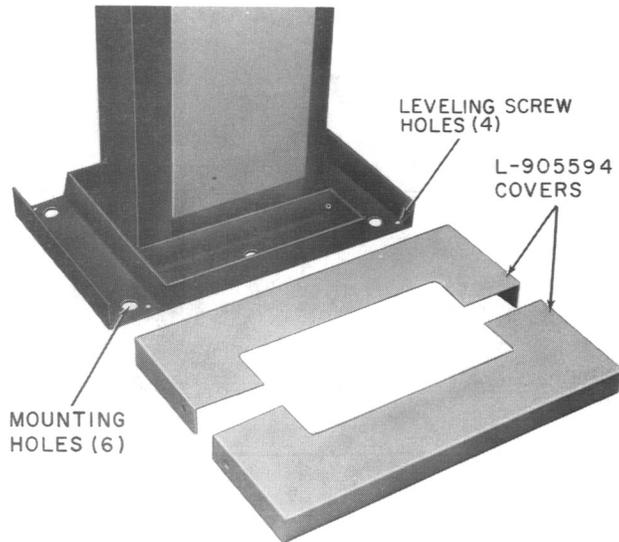


Fig. 7—List 141 or 143 Post-Base Assembly (Sheet 1 of 2)

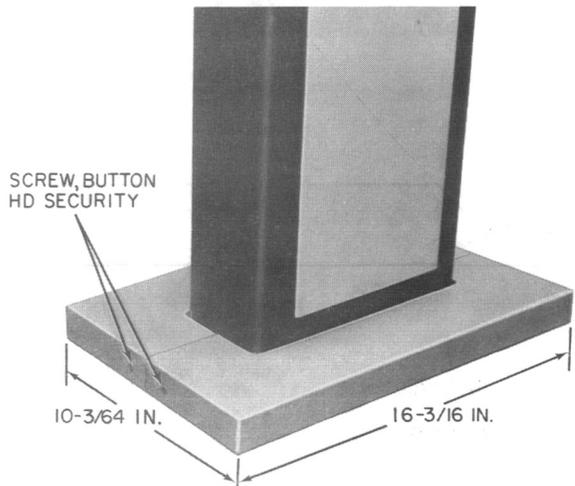
LEGEND

- ① L-905586-2 POST (L141)
- ② L-905586-3 POST (L143)
- ③ L-765006-2 PANEL (L141)
- ④ L-765006-3 PANEL (L143)
- ⑤ L-905594 COVER
- ⑥ BUTTON HD SECURITY SCREW
- ⑦ L-765065-3 FH SECURITY SCREW
- ⑧ L-765043 PROTECTOR COVER
- ⑨ TELEPHONE PROTECTOR MTG SCREWS
- ⑩ TELEPHONE GROUND SCREW
- ⑪ ELECTRICAL OUTLET
- ⑫ CIRCUIT BREAKER MTG SCREWS
- ⑬ ELECTRICAL GROUND LUG
- ⑭ UNDERGROUND TEL AND POWER WIRE ENTRANCE
- ⑮ OPTIONAL TEL AND POWER KNOCKOUTS
- ⑯ LIGHT CONTROL KNOCKOUT
- ⑰ CABLE HOLE
- ⑱ 1/2-IN. PLASTIC PLUG (ELECTRICAL WIRE ENTRANCE)
- ⑲ 1/2-IN. PLASTIC PLUG (TELEPHONE WIRE ENTRANCE)
- ⑳ 3/8-IN. PLASTIC PLUG
- ㉑ 1/2-13 X 3/8-IN. SOCKET SET SCREW
- ㉒ 3/8-16 X 1-1/4 IN. HEX HD SCREW
- ㉓ 3/8-IN. PLAIN WASHER
- ㉔ 1/4-20 X 3/4-IN. SOCKET SET SCREW

Fig. 7—List 141 or 143 Post-Base Assembly (Sheet 2 of 2)



A. COVERS REMOVED FROM POST-BASE



B. COVERS INSTALLED ON POST-BASE

Fig. 8—List 141 or 143 Post-Base, Cover Placement

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

2.102 This base does not require a cover.

D. KS-20842, List 152 Buried Base (Fig. 14)

2.103 The List 152 buried base is intended to be set in concrete and used with List 141, 143, or 144 post-base.

2.104 Overall dimensions of List 152 base are:

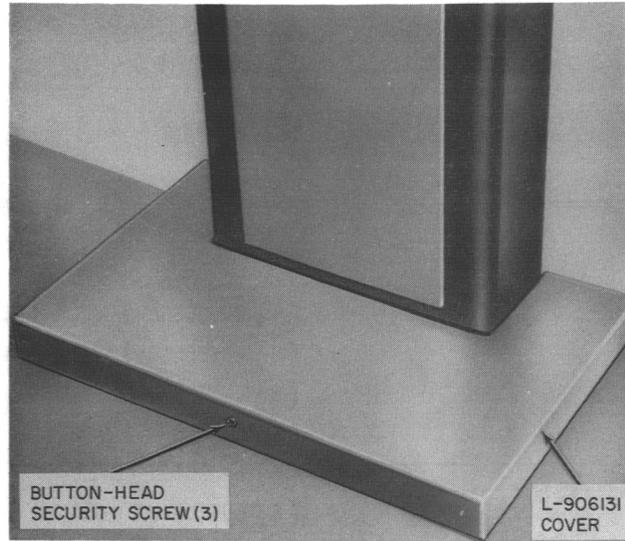


Fig. 9—List 144 Post-Base (Flush Mounted)

- Length—16 inches
- Width—10 inches
- Thickness—3/16-inch.

2.105 The base has six 4-inch pipe studs, tapped to accept the post-base mounting bolts.

2.106 Six plastic plugs are provided to protect the tapped holes before installation of the post-base combination to the buried base.

2.107 An opening is provided in the baseplate for underground service wire and ground rod.

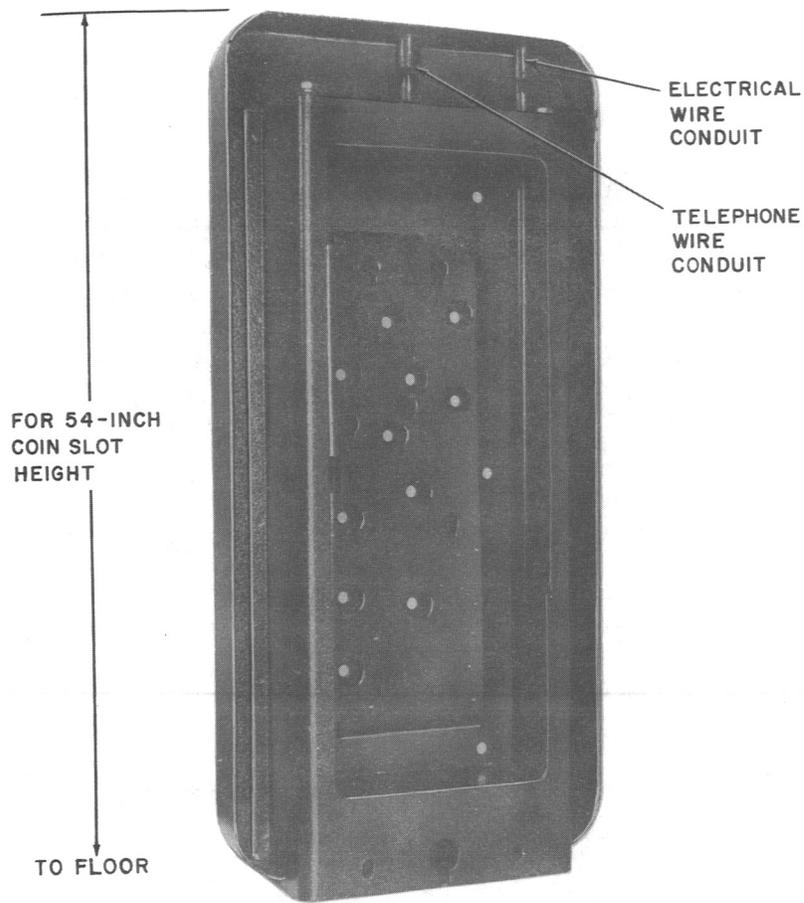
E. KS-21976, List 1 Foundation

2.108 A KS-21976, List 1 foundation is available to use in lieu of a KS-20842, List 50, 51, or 52 base to mount the List 40, 41, or 43 post. Refer to Section 508-809-100 for complete information.

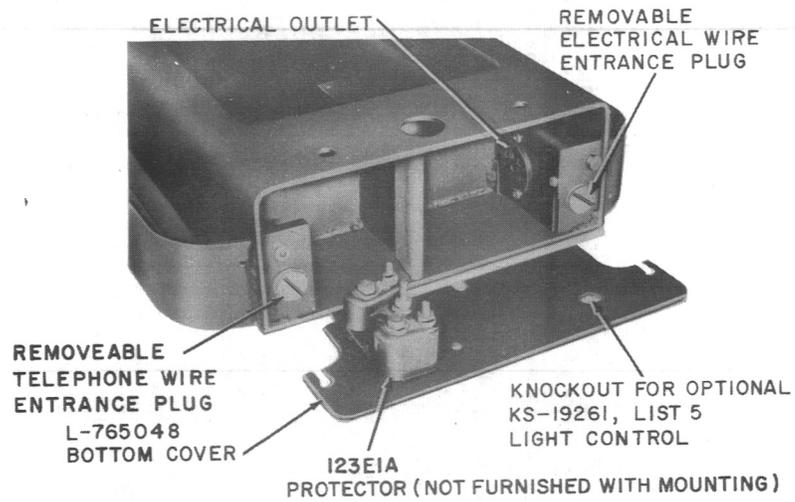
F. KS-21976, List 11 Foundation (Fig. 15)

2.109 A KS-21976, List 11 foundation is available for use in lieu of KS-21976, List 1 to mount the List 40, 41, or 43 post.

2.110 The KS-21976, List 11 can also be used in lieu of the List 152 base to mount the List 141,



FRONT VIEW



BOTTOM VIEW

Fig. 10—List 42 Mounting

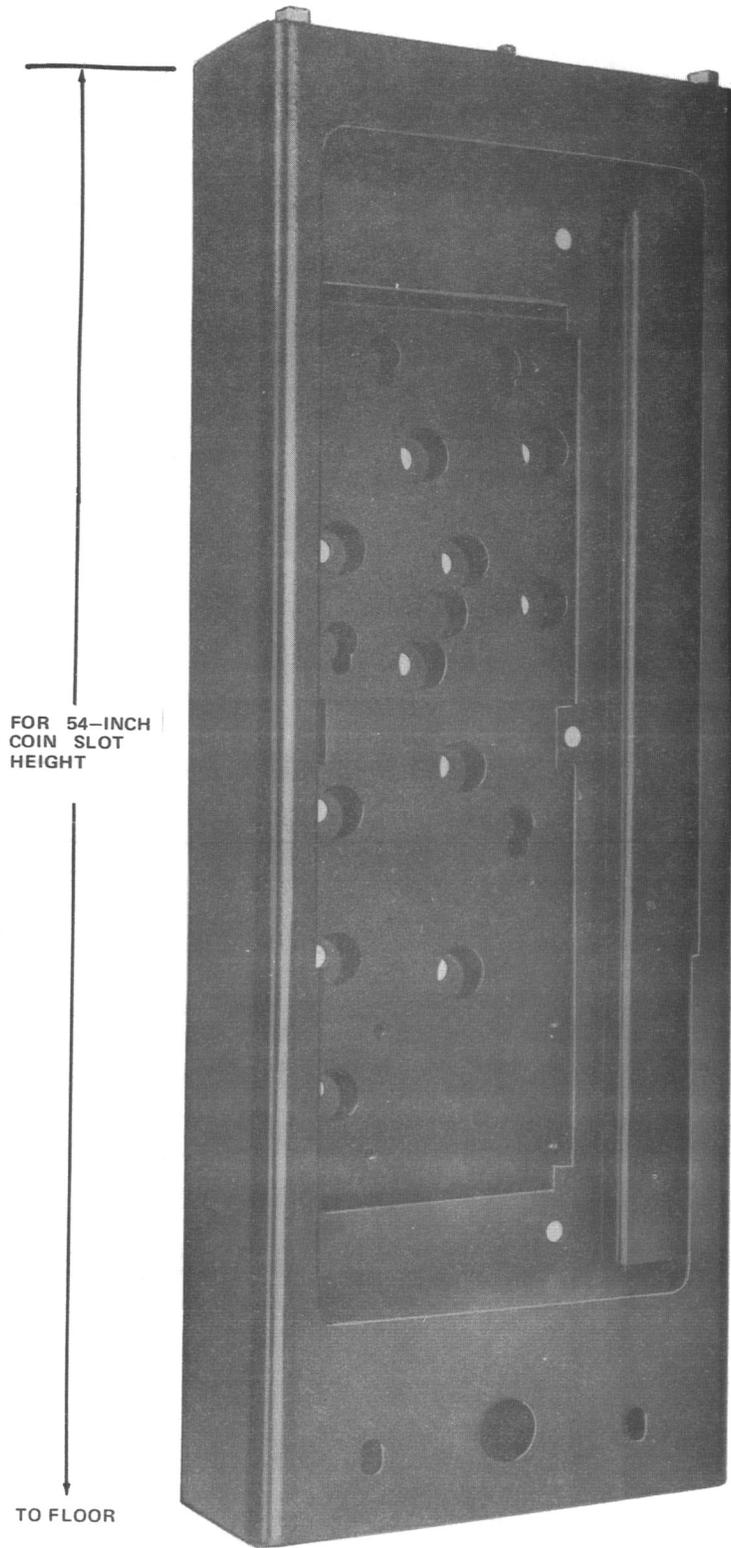


Fig. 11—List 45 Mounting

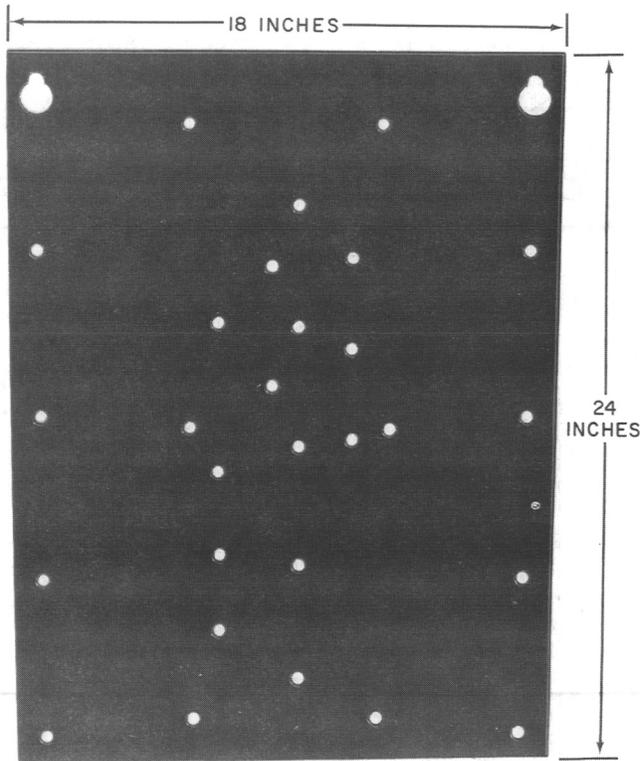


Fig. 12—List 47 Wall Plate

143, or 144 post-base combination. Refer to Section 508-809-100 for complete information.

ORDERING (See Table A)

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

Example 1:

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

1—Mounting, Telephone, KS-20842, List 201.

Example 2:

One single, indoor or outdoor walk-in free standing post-mounted unit, with List 33 housing, blue finish, mast, sign, and a service entrance box would be ordered as follows:

1— Mounting, Telephone, KS-20842, List 203 with List 64 Finish

1— Mast Assembly, KS-20842, List 170

1— Box, Circuit Breaker, KS-19426, List 17

1— Sign, KS-20135, List 3.

3. INSTALLATION

3.01 Location of telephone should be as follows:

- 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 location with adequate space to permit access for maintenance purposes
- In areas free of potential hazards (such as explosives).

Warning: Telephone apparatus or wiring shall not be installed in a location where minimum separation from other wiring as specified in Division 460 cannot be maintained.

3.02 These telephone enclosures may be installed on the following:

- Concrete base
- Wood floor
- KS-20842, List 52 (A&M Only) or 152 buried base
- KS-21976, List 1 or 11 foundation (see Section 508-809-100)
- Wall.

3.03 Various list numbers have been assigned to combinations of other list numbers to facilitate installation procedures. Refer to Table A for these listings. Table B lists fasteners for wall mountings.

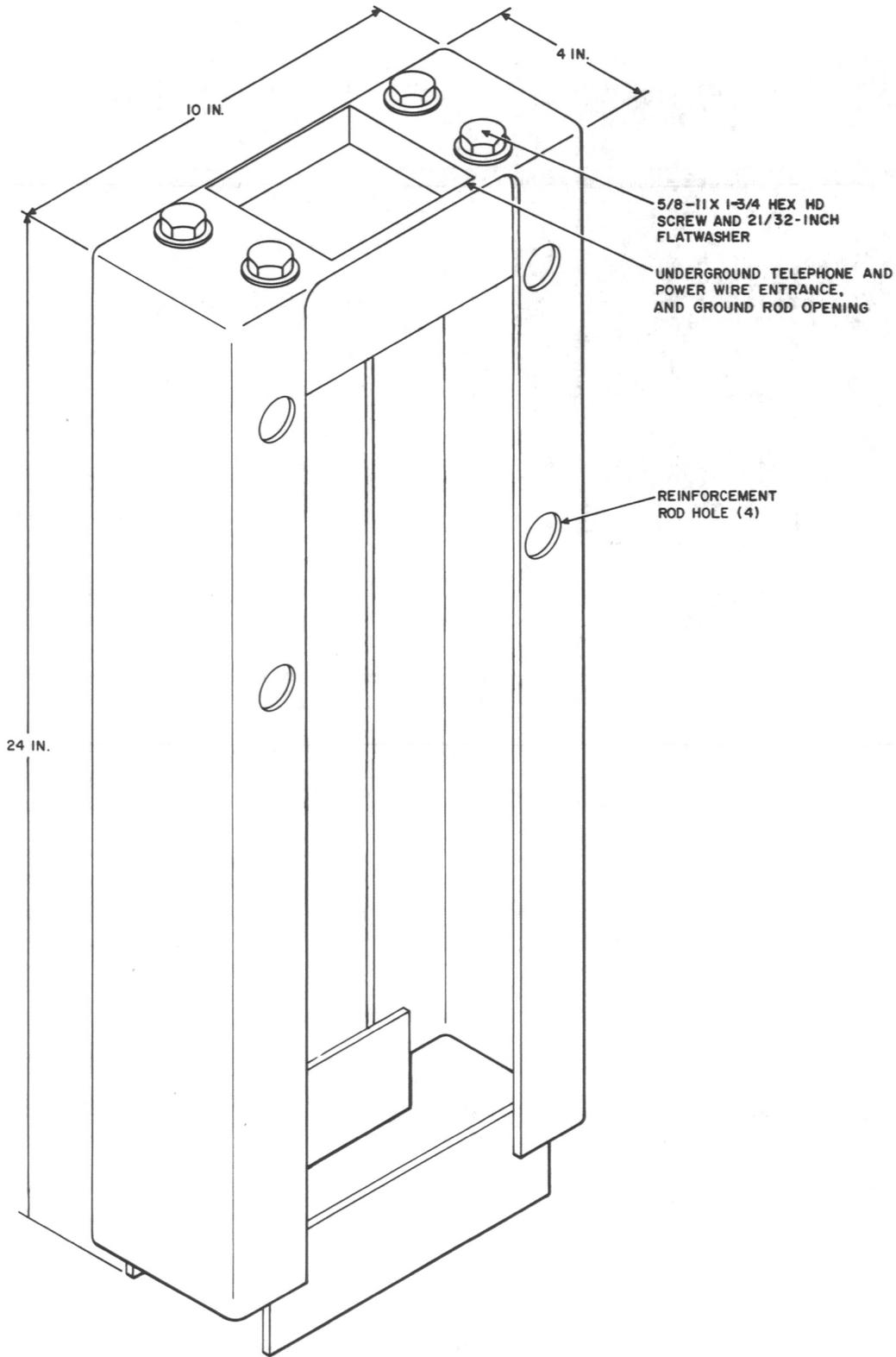


Fig. 13—List 52 (A&M Only) Buried Base

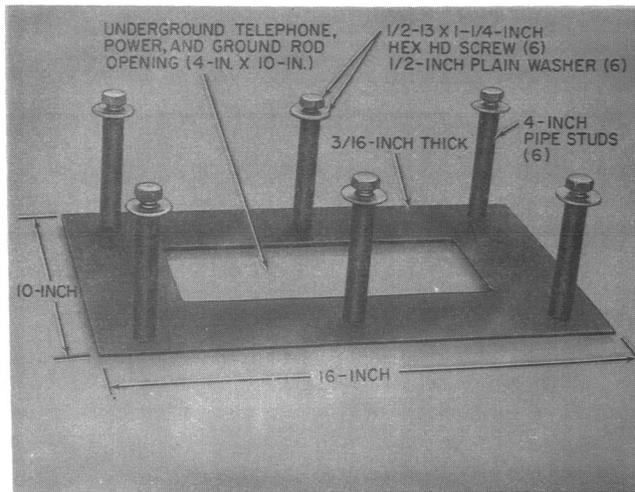


Fig. 14—List 152 Buried Base

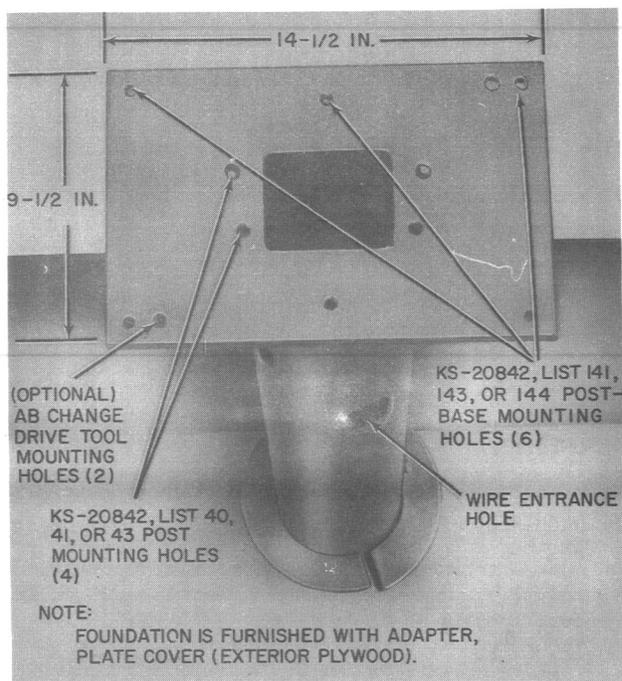


Fig. 15—KS-21976, List 11 Foundation

BASE ASSEMBLIES

3.04 Foundation Requirements.

- (a) Ensure that all requirements set forth by local regulations are met.
- (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 and List 31 or 31A housing) is 4 inches thick and 40 inches square. This includes existing booth pads. All other equipment arrangements should conform to Fig. 16.

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

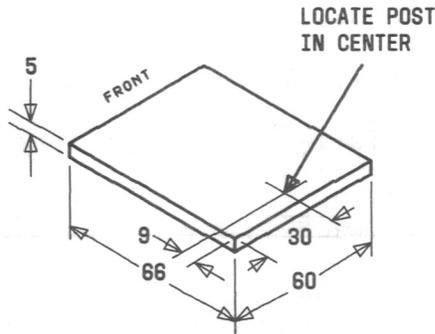
(c) *New Masonry Surfaces.*

- (1) It is recommended that all new concrete foundations utilize a List 52 (A&M Only) or 152 buried base assembly where possible (Fig. 13 and 14).
- (2) If it is not practical to use a buried base, prepare a surface mount foundation using Fig. 16 (View A) as a guide for single mountings. For double mountings, a pad should be provided (approximately half the length as the original) for the customer to stand on.

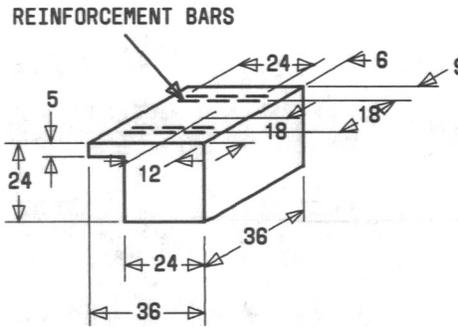
(d) *Wooden Surfaces*—should be a minimum of 2 inches thick.

3.05 List 50 or 51 (A&M Only) Surface Mount Base Assembly (Fig. 17).

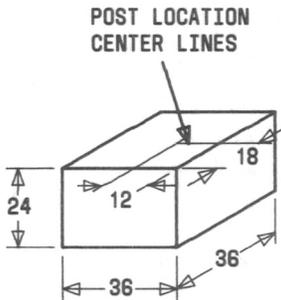
- (a) Using a KS-19192, List 1 wrench, remove the flathead security screws and base cover(s).
- (b) Place the base in the exact position of installation. Refer to Fig. 17 for orientation.



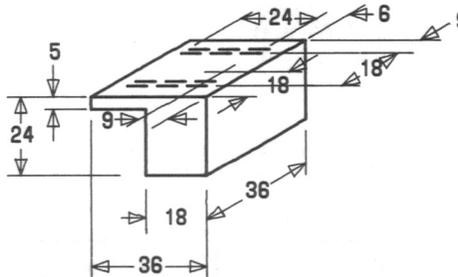
VIEW A. - DIMENSIONS REQUIRED FOR SINGLE OR BACK-TO-BACK MOUNTING



VIEW C. - DIMENSIONS REQUIRED FOR MEDIUM SOIL (STIFF BUT CAPABLE OF BEING SPADED)



VIEW B. - DIMENSIONS REQUIRED FOR SOFT SOIL



VIEW D. - DIMENSIONS REQUIRED FOR HARD SOIL (REQUIRES PICKING)

NOTES:

1. ALL DIMENSIONS SHOWN ARE IN INCHES
2. CONCRETE MIX (1, 2, 4 MIXTURE) SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI.
3. USUALLY FORMS WILL NOT BE REQUIRED. EXCAVATE TO DIMENSIONS SHOWN. DO NOT BACKFILL.
4. TWO NO. 4 REINFORCEMENT BARS, 24 INCHES LONG, SHOULD BE ADDED TO UPPER PORTION OF CONCRETE, AS SHOWN IN VIEW C. FOR MEDIUM AND HARD SOIL CONDITONS, TO PREVENT CRACKING.

Fig. 16— Concrete Foundation Requirements For Surface Mount Bases or Posts and List 52 or 152 Buried Base

- (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.
- (e) Remove base from drilling area.
- (f) **Masonry Surfaces:**
 - (1) Use the drop-in anchors from KS-20842, List 78 installation kit (Table A).

Danger: Use eye protection while drilling.

- (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) Set anchors using Hilti HSD12 setting tool or equivalent.
- (4) 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.

Danger: Use eye protection while drilling.

- (2) Drill 1/2-inch lead holes 2 inches deep.
- (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 (A&M only) Buried Base Assembly (Fig. 13):

- (a) Prepare a form as follows.
 - (1) Excavate soil to the dimensions shown in Fig. 16.

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

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

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- 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.
- (e) When required install ground rod before pouring concrete, leaving 4 to 5 inches above top of base. Refer to Fig. 18 to determine if ground rod is required.
- (f) Verify that top of base is level and pour the concrete to fill the form.

3.07 List 152 Buried Base (Fig. 14).

- (a) **Prepare a form as follows.**

- (1) Excavate soil to the dimensions shown in Fig. 16.

Note: If soil is too soft, it may be necessary to build a form.

- (b) A leveling tool (supplied locally [Fig. 19]) can be used to position the List 152 buried base during installation. Attach the base to the tool and position as shown in Fig. 20, View A, B, or C depending on soil condition.
- (c) Insert the six plastic plugs furnished with the base into the 3/8-inch tapped pipe holes.
- (d) If underground power and telephone wires are to be used, provide conduit before pouring concrete.

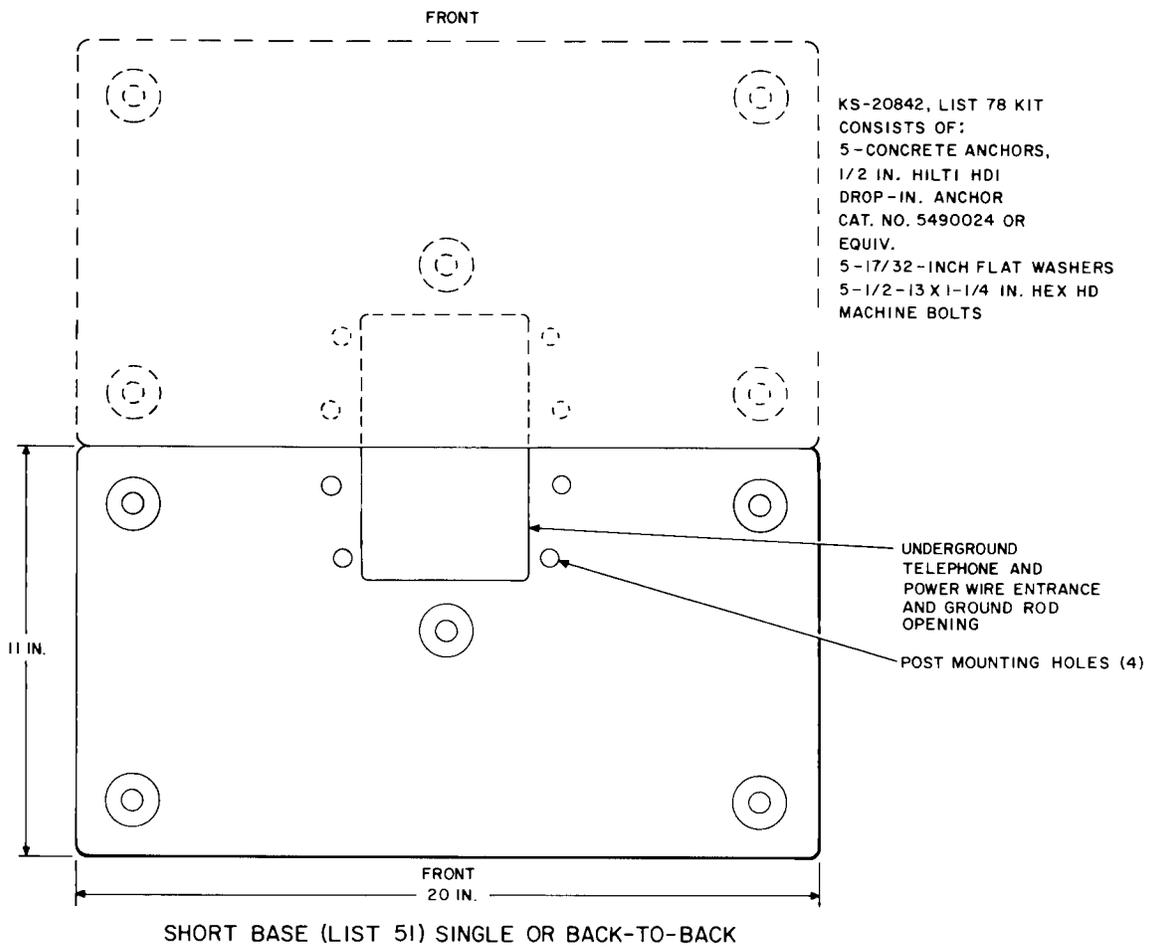
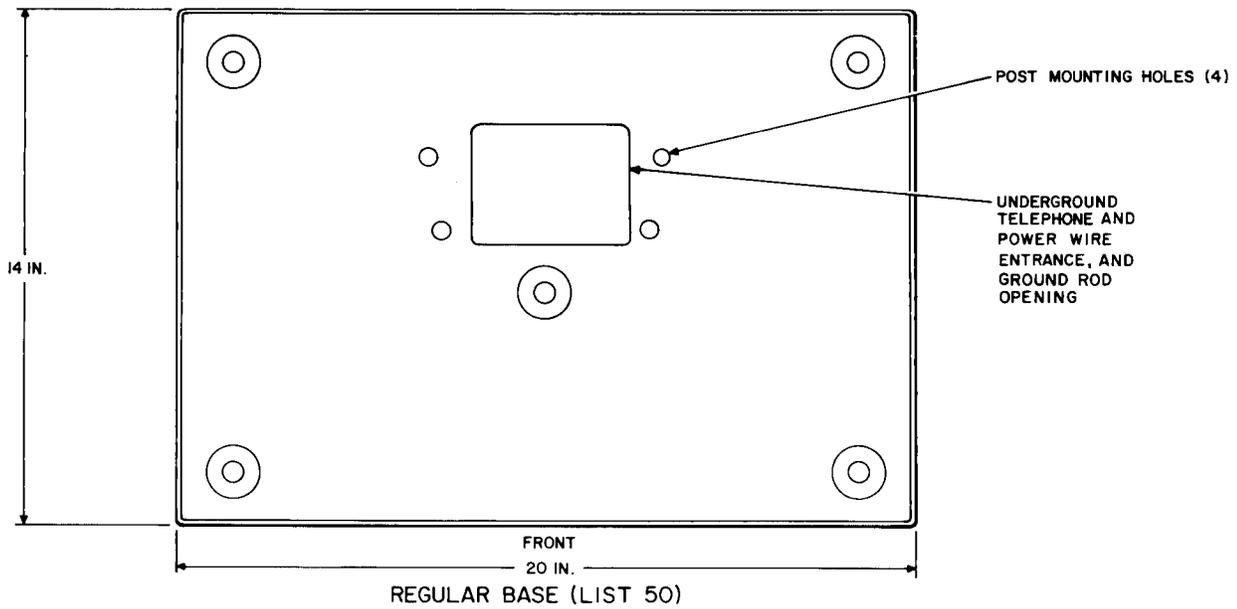
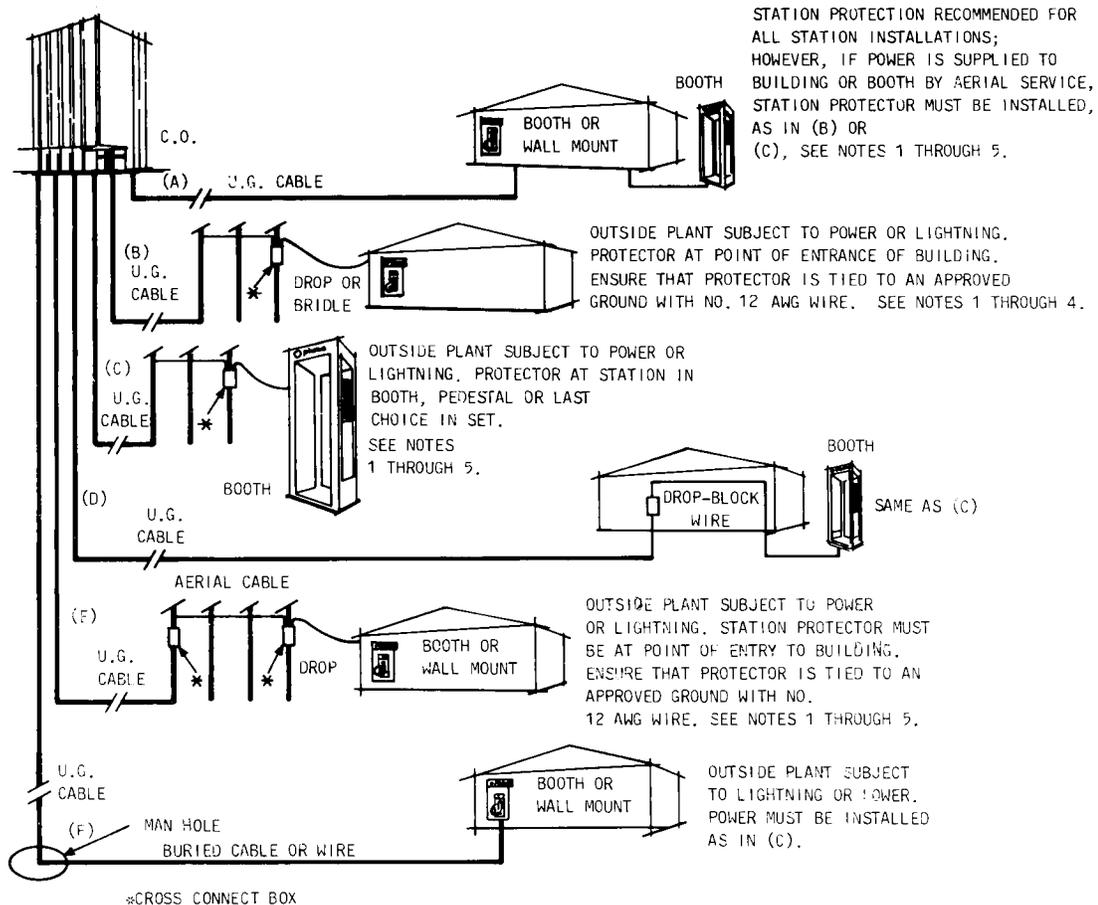


Fig. 17—Layout of Holes in Lists 50 and 51 Bases, With Cover(s) Removed



- NOTES:
1. FOR ADDITIONAL INFORMATION ON STATION PROTECTOR AND SIGNALING GROUNDS, REFER TO SECTION 460-100-400 AND FOR D-TYPE SETS REFER TO TOP-506-410-402.
 2. HOUSINGS OF ALL OUTSIDE STATIONS MUST BE GROUNDED. IF SET IS NOT MOUNTED IN A GROUNDED ENCLOSURE, RUN A NO. 12 AWG WIRE FROM STATION TO NEAREST APPROVED GROUND.
 3. CARBON BLOCKS THAT BREAK DOWN PREMATURELY CAN CAUSE FAILURES OF COIN COLLECT OR REFUND. CARBON BLOCKS SHOULD BE REPLACED BY GAS TUBE PROTECTORS (123E1A) OR 11B1A PROTECTOR UNITS IN 123-TYPE PROTECTOR BASE. SEE SECTION 506-100-100.
 4. WHEN THE PROTECTOR IS MOUNTED IN AN ENCLOSURE SUCH AS A BOOTH OR SHELF, BOND THE ENCLOSURE AND PROTECTOR GROUND TOGETHER WITH NO LESS THAN NO. 12 AWG WIRE, SEE SECTION 508-100-100.
 5. WHEN PROTECTOR IS MOUNTED INSIDE SET, CONNECT WIRING PER VIEW A OR B BELOW.
 6. TERMINALS PG AND G ON COIN CHASSIS SHOULD NEVER BE STRAPPED TOGETHER.

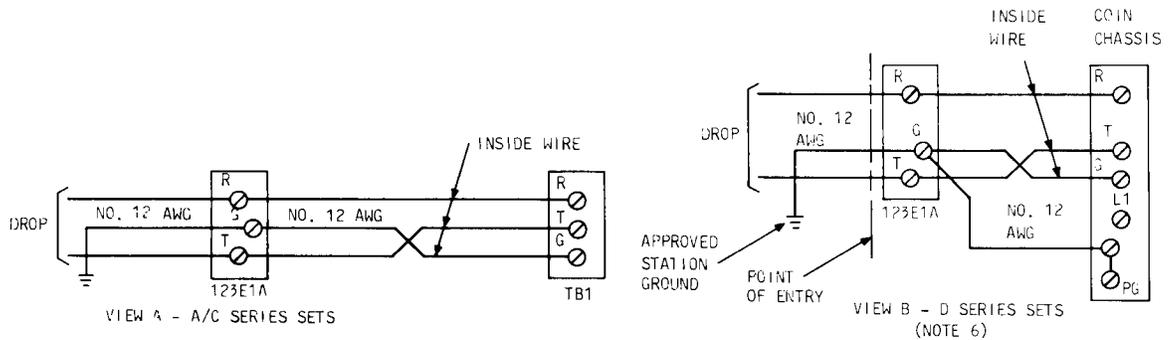


Fig. 18—Grounding Requirements

(e) When required, install ground rod before pouring concrete. Ensure that conduit and rod are located properly to enter post opening.

(f) Pour concrete including reinforcement rods when required and install buried base so top of base is flush with top of concrete. Verify that top of base is level.

(g) **Masonry Surfaces, Using List 178 Mounting Kit (Fig. 21).**

(1) Use the six drop-in anchors from the List 178 mounting kit (Table A).

Danger: Use eye protection while drilling.

(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) Clean out holes and set anchors using Hilti HSD12 setting tool or equivalent.

(4) Secure the post using six bolts and washers in the mounting kit.



The post must be level to ensure proper operation of the coin telephone set. Use the four (4) initial leveling screws, (Fig. 21) for initial leveling only. Use shimming washers as necessary on the mounting bolts for final leveling.

(h) **Wooden Surfaces:**

(1) Use 5/8- by 3-inch hex head lag bolts and washers.

Danger: Use eye protection while drilling.

(2) Drill 1/2-inch lead holes 2 inches deep.

(3) Secure the post using lag bolts and washers.



The post must be level to ensure proper operation of the coin telephone set. Use the four (4) initial leveling screws, (Fig. 21) for initial

leveling only. Use shimming washers as necessary on the mounting bolts for final leveling.

List 152 Buried Base, List 141, 143, or 144 Post-Base (Fig. 21)

3.08 Foundation Requirements (Fig. 16).

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

(b) **Existing Masonry Surfaces.**



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

(1) Surface 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, List 31 or 31A housing) is 4 inches thick and 40 inches square. This includes existing booth pads with post centrally located. All other equipment arrangements should conform to Fig. 16 or 21.

(c) **New Masonry Surfaces.**

(1) It is recommended that all new concrete foundations utilize a List 152 buried base assembly where possible.

(2) If it is not practical to use a buried base, prepare a surface mount foundation using Fig. 16 as a guide. If required, install conduit for underground wiring and a ground rod before pouring concrete.

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

3.09 Surface Mount List 141, 143, or 144 Post-Base (Fig. 21).

(a) Using a KS-19192, List 1 wrench, remove the button head security screws from the L-905594 covers.

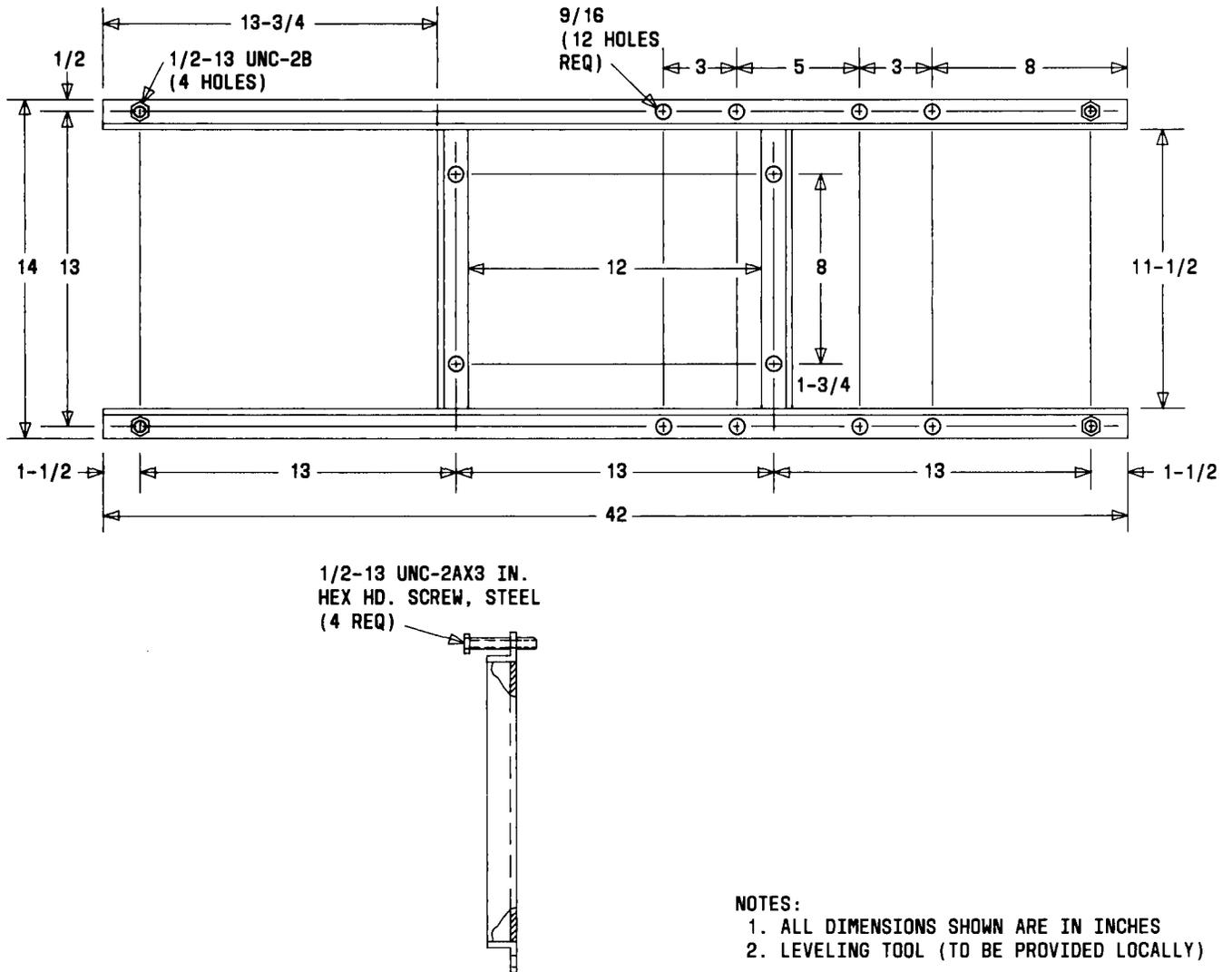


Fig. 19—Leveling Tool (Notes 1 and 2)

- (b) Place the base of posts in exact position of installation.
 - (c) Ensure that underground power and telephone wire entrance conduit and ground rod, if applicable, are located properly to enter post opening.
 - (d) Using the base of the post as a template, mark the locations for the six mounting holes.
- Danger: Use eye protection while drilling.**
- (e) Remove the post from drilling area.

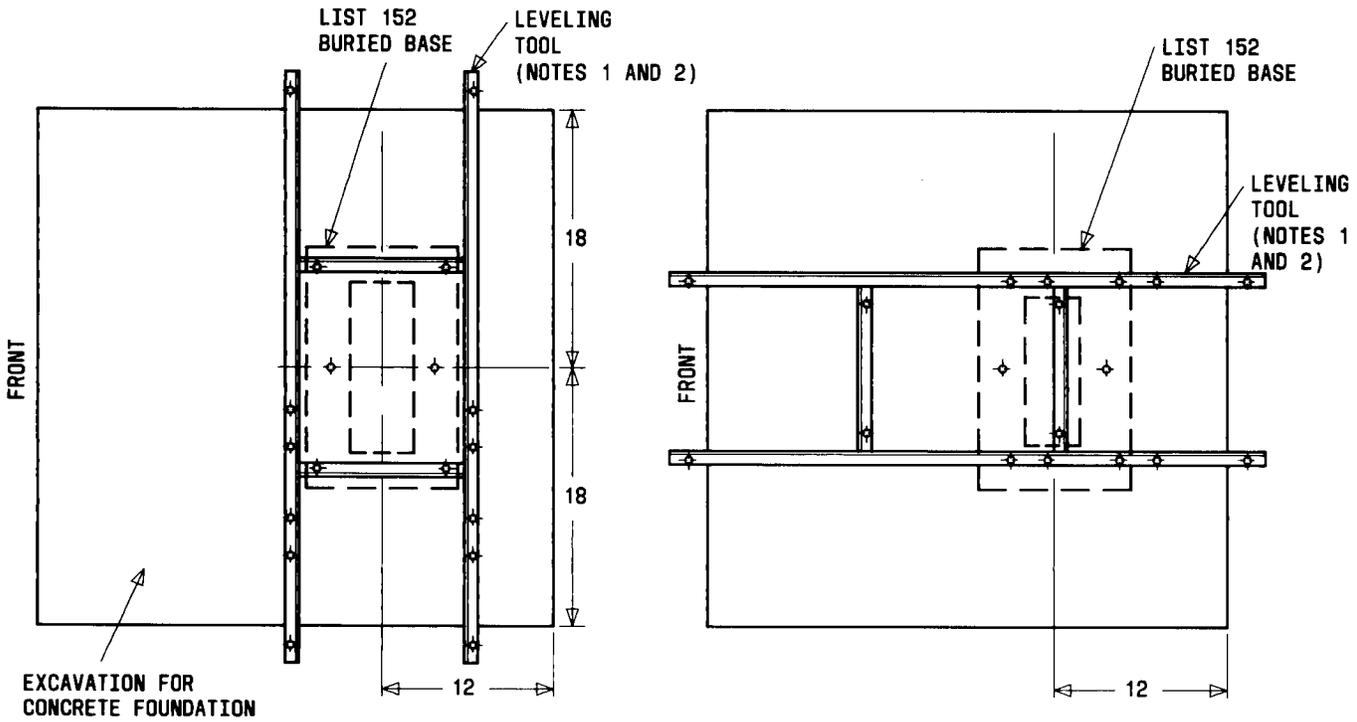
POST ASSEMBLIES

3.10 List 40 (A&M Only) Post Assembly.

- (a) Using a KS-19192, List 1 wrench, remove the two flat head security screws from the front panel. Remove panel as follows (Fig. 22).

Note: In some cases, these may be shipped loose.

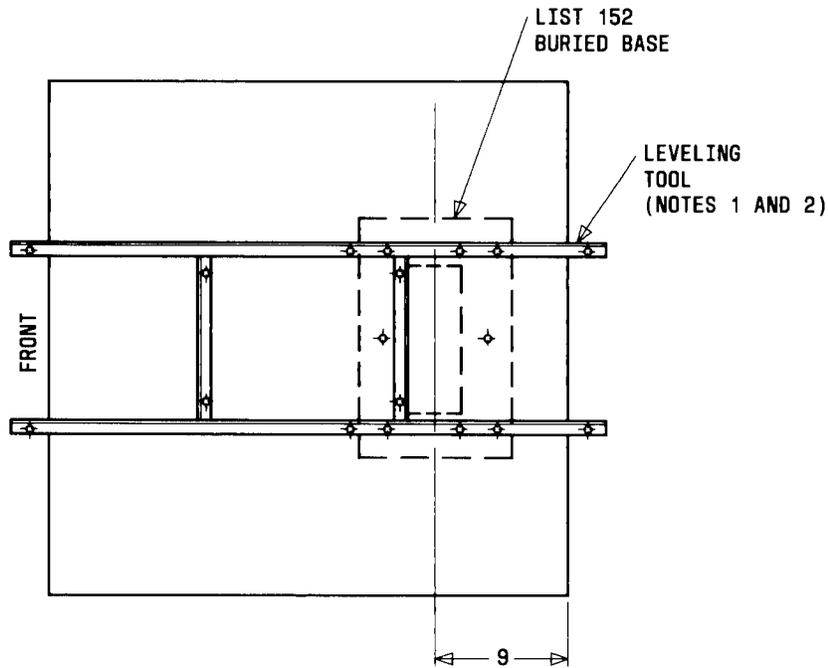
- (1) Brace knee against right side of post, as viewed from front.



VIEW A. SOFT, MEDIUM, OR HARD SOIL

VIEW B. SOFT OR MEDIUM SOIL (ALTERNATE METHOD)

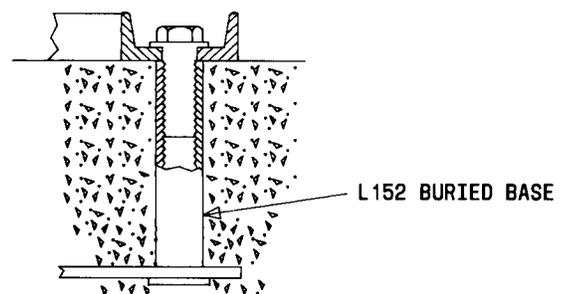
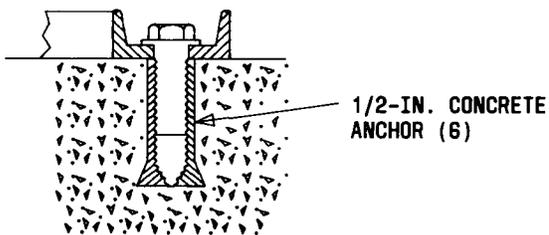
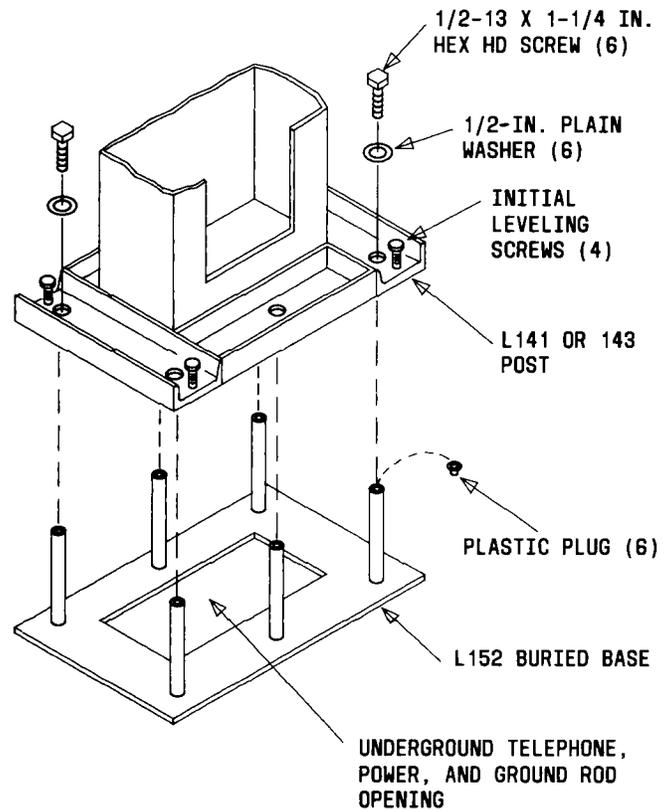
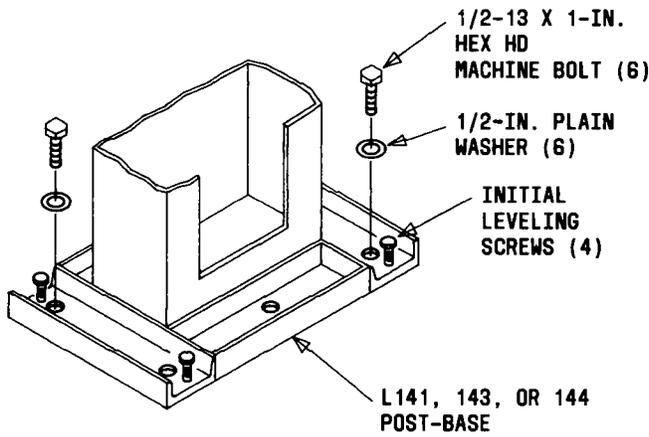
- NOTES:
1. ALL DIMENSIONS SHOWN ARE IN INCHES.
 2. LEVELING TOOL (TO BE PROVIDED LOCALLY).



VIEW C. HARD SOIL (ALTERNATE METHOD)

Fig. 20—Leveling Tool, for Use With List 152 Buried Base

KS-20842, LIST 178 KIT CONSISTS OF:
 6 - CONCRETE ANCHORS, 1/2-IN. HILTI HDI
 DROP-IN ANCHOR CAT. NO. 5490024 OR EQUIV.
 6 - 1/2-IN. PLAIN FLAT WASHERS
 6 - 1/2-13 X 1-IN. HEX HD MACHINE BOLTS



A. SURFACE MOUNT IN CONCRETE

B. BURIED BASE MOUNT IN CONCRETE

Fig. 21 — Surface and Buried Base Arrangement for Lists 141, 143, and 144 Post-Base

- (2) Place both hands on opposite side of panel.
- (3) Pull top and bottom of panel simultaneously toward right side of post.
- (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.

Note: In some cases, these may be shipped loose.

(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) using KS-19192, List 1 wrench to secure flathead security screws to the base.

3.11 List 41 (A&M Only) Post Assembly.

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

(a) Using a KS-19192, List 1 wrench, remove the two flathead security screws from the front panel. Remove panel as follows (Fig. 22).

Note: In some cases, these may be shipped loose.

- (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.
- (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.

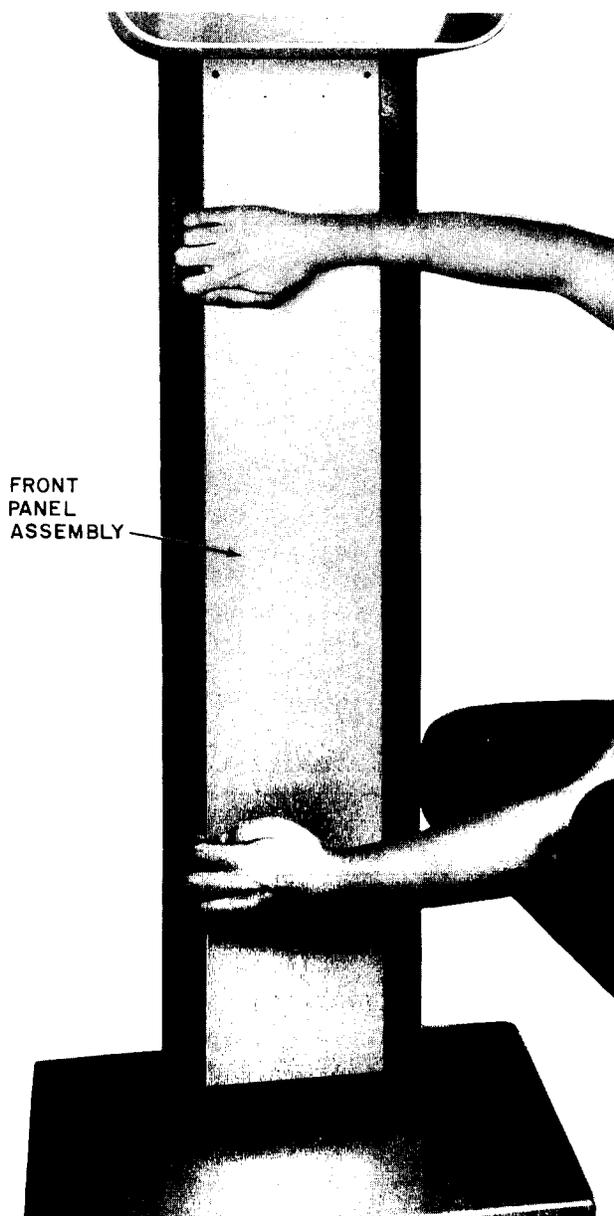


Fig. 22—Installing or Removing Front Panel Assembly on Post or Post-Base

(b) Remove the four 5/8-11 by 1-3/4 hex head bolts and four 5/8-inch flat washers from the base.

Note: In some cases, these may be shipped loose.

(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) using KS-19192, List 1 wrench to secure flathead security screws to the base.

3.12 *List 41L (A&M Only) Post Assembly.*

Note: The List 41L post assembly is the same as the List 41 post assembly, except it is furnished with a KS-19261, List 4 light control unit.

3.13 *List 43 (A&M Only) Post Assembly.*

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

(a) Using a KS-19192, List 1 wrench, remove the two flathead security screws from the front panel. Remove panel as follows (Fig. 22).

Note: In some cases, these may be shipped loose.

(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.

(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.

Note: In some cases, these may be shipped loose.

(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) using KS-19192, List 1 wrench to secure flathead security screws to the base.

3.14 *List 43L (A&M Only) Post Assembly.*

Note: The List 43L post assembly is the same as the List 43 post assembly, except it is furnished with a KS-19261, List 4 light control unit.

3.15 *List 141 Post-Base (Fig. 7).*

Note: The List 141 post-base has entrance holes located at the top and bottom for power and telephone wiring. Panel on front provides access to an electric outlet box, station protector for terminating wiring, and for mounting an optional light control and circuit breaker. It is designed for (drive-up) installation with a coin telephone set (48-inch coin slot height).

(a) Using a KS-19192, List 1 Wrench, remove the two flathead security screws from the front panel. Remove the panel as follows (Fig. 22).

- (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.
- (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) Install the two L-905595 base covers using button-head security screws provided (Fig. 8).

3.16 List 141L Post-Base.

Note: The List 141L post-base is the same as the List 141 post-base, except it is furnished with a KS-19261, List 4 light control unit.

3.17 Lists 143 and 144 Post-Base (Fig. 7).

Note: The Lists 143 and 144 post-base has entrance holes located at the top and bottom for power and telephone wiring. Panel on front provides access to an electric outlet box, station protector for terminating wiring, and for mounting an optional light control and circuit breaker. It is designed for (walk-up) installation with a coin telephone set (54-inch coin slot height).

- (a) Using a KS-19192, List 1 wrench, remove the two flathead security screws from the front panel. Remove the panel as follows (Fig. 22).
 - (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.
 - (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) Install the two L-905594 base covers using button-head security screws provided (Fig. 8).

3.18 Lists 143L and 144L Post-Base.

Note: The Lists 143L and 144L post-base are the same as the Lists 143 and 144 post-base, except they are furnished with a KS-19261, List 4 light control unit.

MOUNTINGS AND WALL PLATES

3.19 List 42 Mounting (Fig. 10) (List 31 Housing).

- (a) Hold the mounting on wall at the required height (Fig. 10), ensure that it is plumb, and mark the locations for six outer fasteners and any additional fasteners in the center area as required.

Danger: Use eye protection while drilling.

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

3.20 List 42L Mounting (List 31 Housing).

Note: The List 42L mounting is the same as the List 42 mounting, except it is furnished with a KS-19261, List 5 light control unit.

3.21 List 42A Mounting (List 31A Housing).

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

Danger: Use eye protection while drilling.

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

3.22 *List 42AL Mounting (List 31A Housing)*

Note: The List 42AL mounting is the same as the List 42A mounting, except it is furnished with a KS-19261, List 5 light control unit.

3.23 *Lists 45 and 45L Mounting (Fig. 11) (Lists 33 and 35A Housing)*

Note: The Lists 45 mounting can be installed with or without a List 47 wall plate.

- (a) To install a List 45 **without** a List 47 wall plate.

(1) Hold the mounting on wall at the required height (Fig. 11), ensure that it is plumb, and mark the locations for fasteners.

Danger: Use eye protection while drilling.

(2) Put the mounting aside and drill holes at the marked locations. Use Table B as a guide for drill sizes.

(3) Secure mounting using the prescribed hardware, per Table B.

- (b) To install a List 45 **with** a List 47 wall plate.

(1) Secure the List 47 wall plate to the List 45 mounting using hardware supplied with plate.

(2) Hold the mounting, with plate, on wall at the required height (Fig. 11), ensure that it is plumb, and mark the locations for fasteners at the two key hole slots.

Danger: Use eye protection while drilling.

(3) Put the mounting aside and drill holes at the marked locations. Use Table B as a guide for drill sizes.

(4) Install the two screws or bolts in the drilled holes per Table B.

(5) Hang the mounting on the two screws and mark the location for six additional fasteners along the edges and any additional fasteners in the center area as required.

Danger: Use eye protection while drilling.

(6) Put the mounting aside and drill holes at the marked locations. Use Table B as a guide for drill sizes.

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

Note: The List 45L mounting is the same as the List 45 mounting, except it is furnished with a KS-19261, List 5 light control unit.

SHELF ASSEMBLY

3.24 *List 30 Shelf Assembly (Fig. 23).*

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

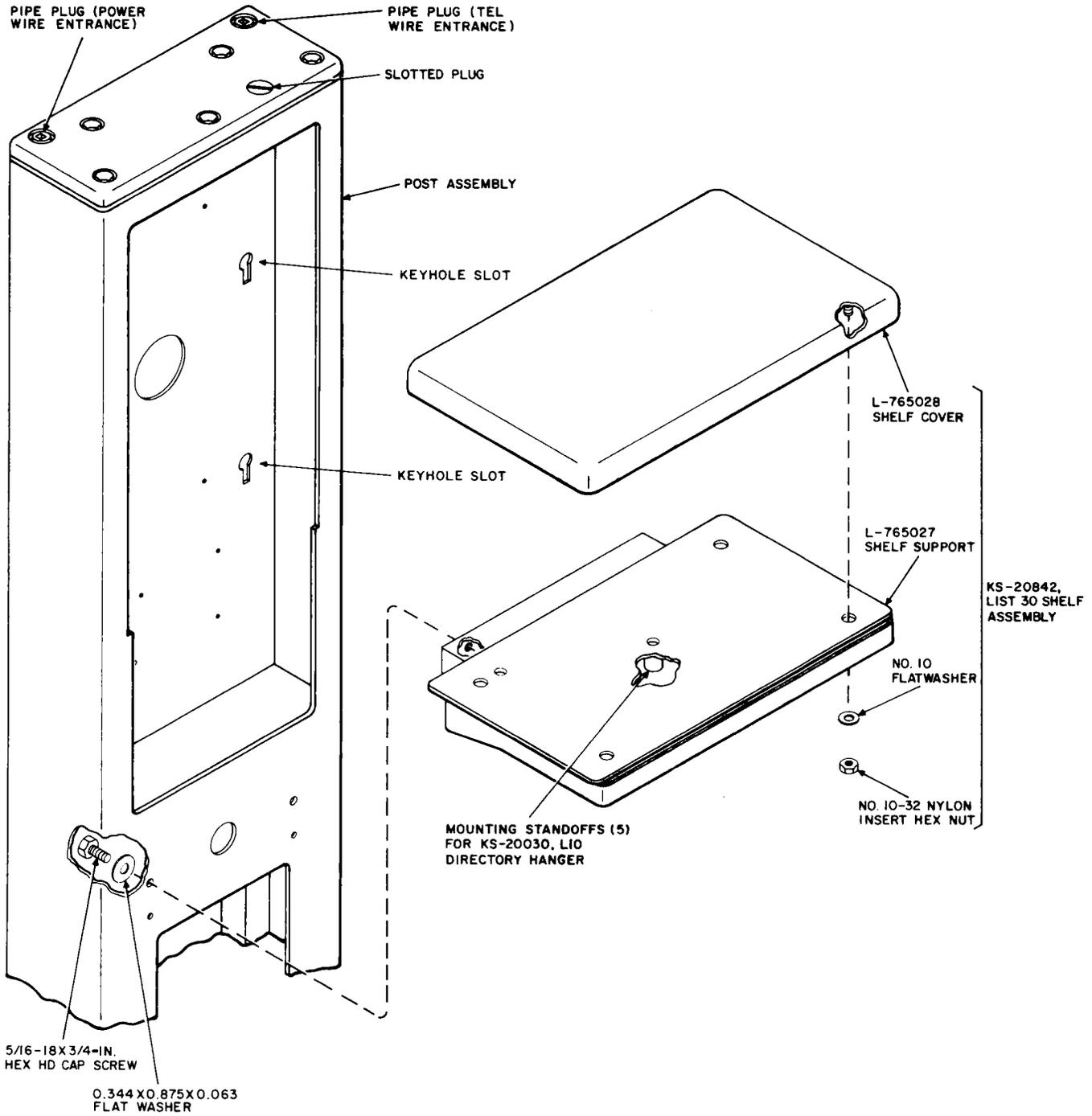


Fig. 23—Installation of List 30 Shelf on Post

HOUSING ASSEMBLIES**3.25 List 31 or 31A Housing Assembly With List 40, 41, or 43 Post (A&M Only); List 141, 143, or 144 Post-Base; and List 42 or 42A Mounting (Fig. 24 and 25).**

Note: If a mast assembly is to be installed on a post, install the mast before the housing (see Section 508-452-103).

- (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.

Danger: Wear eye protection when handling the fluorescent lamps.

- (b) Remove the two fluorescent lamps from the light fixture.
- (c) Remove the two hex head screws and flat washers from lower rear of housing and remove the L-765034 cover.
- (d) **Lists 40, 41, or 43 post and List 42 mounting only.**
- (1) Remove the two outside-front hex head screws and flat washers from top of post (two screws from mounting).
 - (2) Remove front panel from post or bottom cover from mounting.
 - (3) Position housing on post or mounting while carefully guiding electrical cord through the cable hole located in center of post bottom front mounting.
 - (4) 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 (1). Do not tighten the screws.
 - (5) Secure lower part of housing with screws and cover removed in (c). Screws are fed through post or mounting from inside into the threaded cover holes.
 - (6) Tighten the two screws installed in top of housing.
 - (7) Ensure that the two connectors in upper part of housing are properly engaged and

install the two fluorescent lamps removed in (b).

- (8) Plug the electrical cord into the receptacle provided in lower portion of post (Fig. 26) and replace front panel in post or bottom cover in mounting removed in (2).
 - (9) 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.
 - (10) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.
- (e) **List 141, 143, or 144 post-base and List 42A mounting only.**
- (1) Remove the three outside front hex head screws and washers from top of post (two screws from mounting).
 - (2) Remove front panel from post (bottom cover from mounting).
 - (3) Position housing on post (mounting) while guiding electrical cord through the cable hole located in center of post (bottom front mounting).
 - (4) Secure top of housing using two of the 3/8-16 by 1-1/2 inch hex head screws and two 13/32-inch flat washers removed in (1), do not tighten (discard third screw and washer).
 - (5) Secure lower part of housing with screws and cover removed in (c). Screws are fed through post (mounting) from inside into the threaded cover holes.
 - (6) Tighten two screws installed in top of housing in (4).
 - (7) Ensure electrical connector in upper housing is properly engaged and install lamps removed in (b).
 - (8) Plug electrical cord into the receptacle provided in lower portion of post (mounting).
 - (9) Replace front panel in post (bottom cover in mounting) removed in (2).

- (10) Install diffuser removed in (a).
- (11) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.

3.26 List 31 Housing Assemblies Back-To-Back on List 40 or 41 Post Using List 42 Mounting and List 71 Mounting Kit (Fig. 27).



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

Danger: Use eye protection while drilling.

- (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 that line 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 outside diameter flat washers and secure the mounting to the post.
- (g) Install the first List 31 housing on the post per paragraph 3.25.
- (h) Remove the two L-765055 side panels from the List 71 kit and install them as follows.
 - (1) Place the panel on each side of the List 42 mounting. **Make sure the panel 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 flathead self 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 paragraph 3.10(a).
 - (2) Using a KS-19192, List 1 wrench, loosen two security screws and remove bottom cover from mounting (Fig. 10).
 - (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 Fig. 6 in Section 508-452-103.
- (j) Install telephone wiring between post and mounting as follows.
 - (1) Run the two drops into bottom of post and terminate them on a 128E1A-2 protector (provided locally). See Fig. 4 in Section 508-452-103.
 - (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. 27).

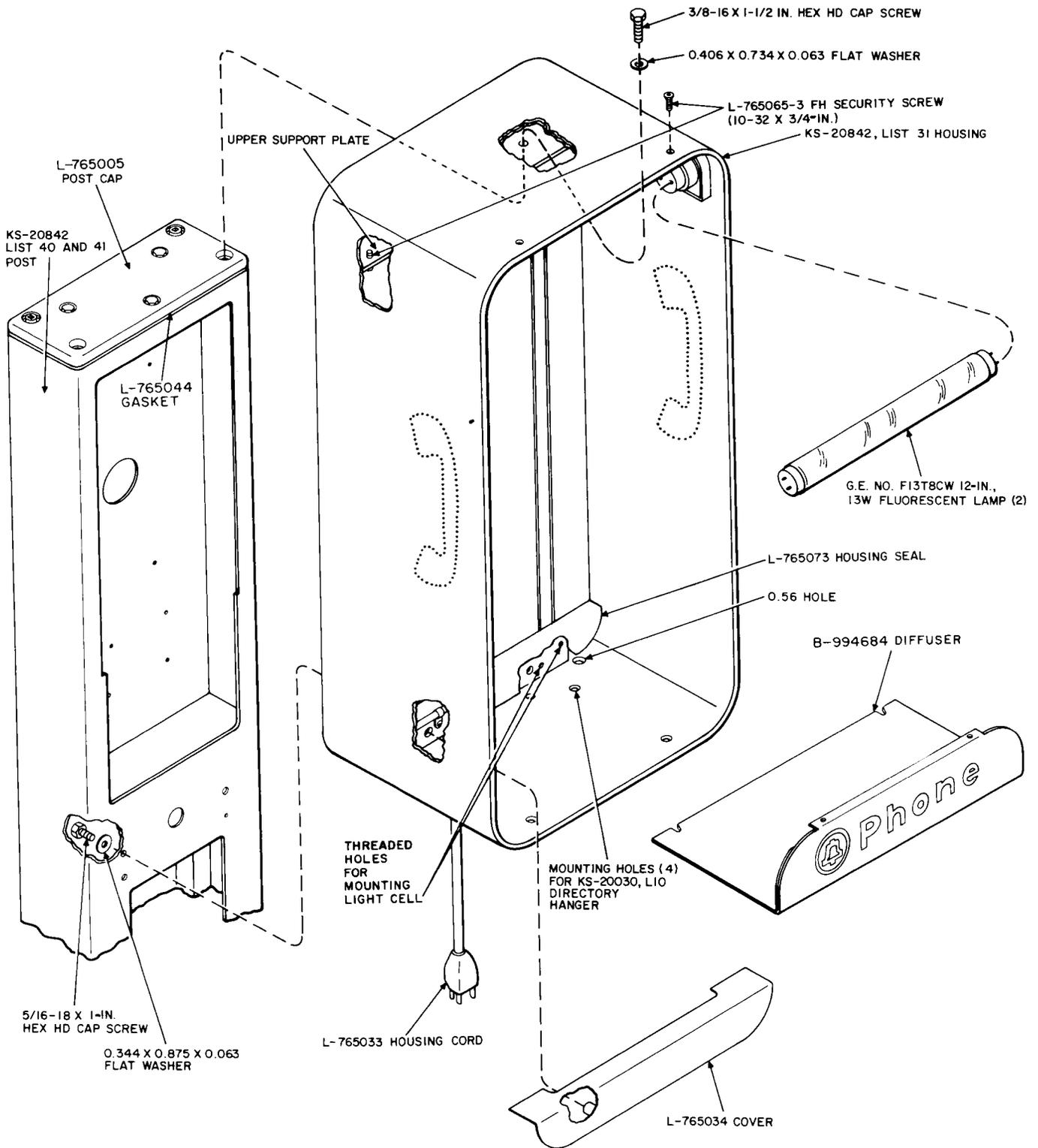


Fig. 24—Installation of List 31 Housing on Post

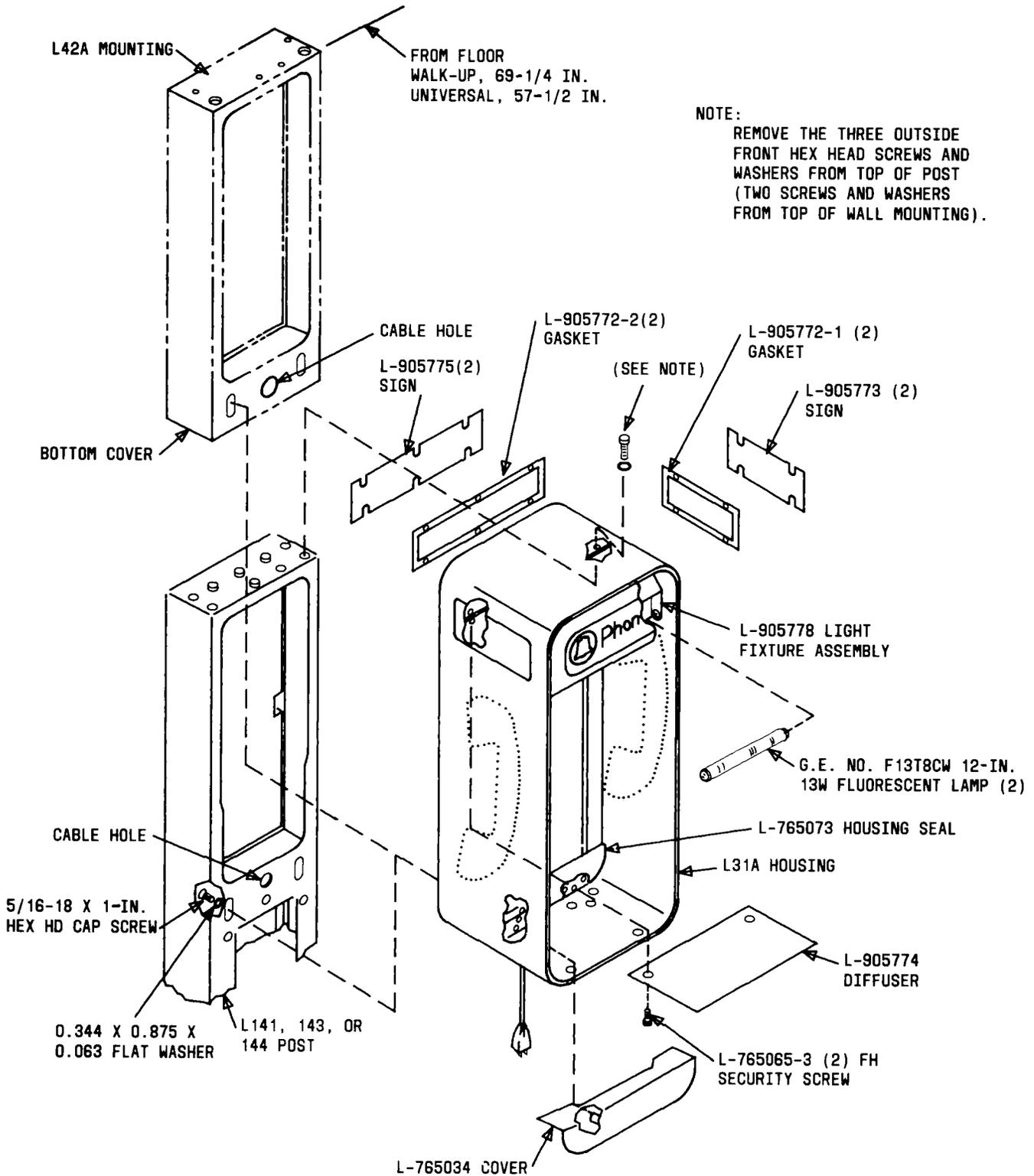


Fig. 25— Installation of List 31A Housing on List 141, 143, or 144 Post-Base or List 42A Mounting

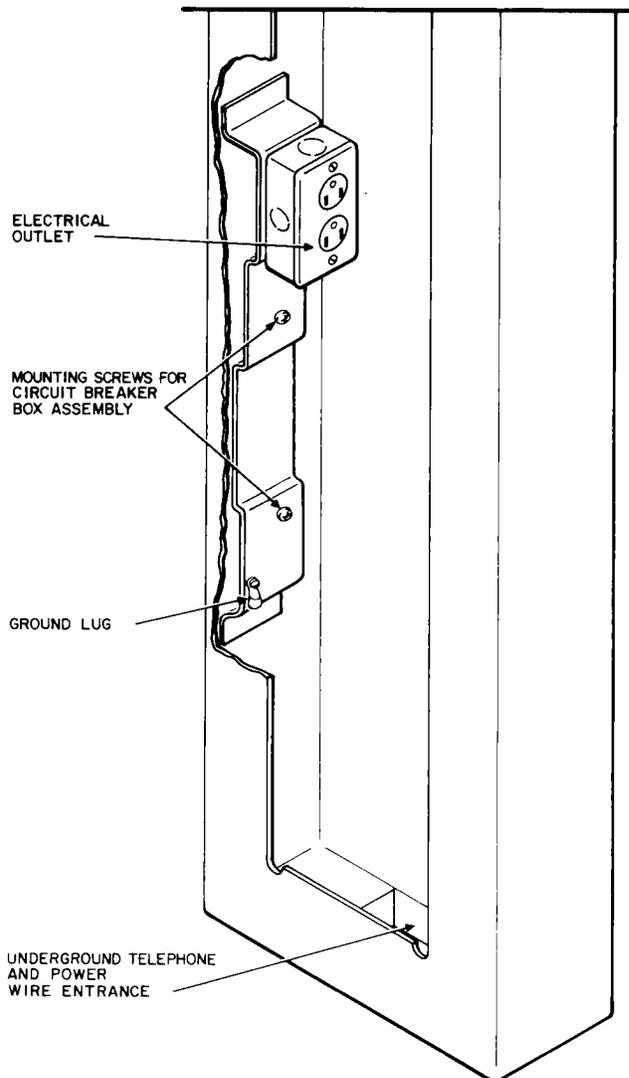


Fig. 26—Components in Bottom of Post (Typical)

- (k) Install the second List 31 housing on the List 42 mounting per paragraph 3.25 (a) through (c).
- (l) If the post is installed on a List 50 base, use a KS-19191, 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. Install 10A coinless telephone set per Section 506-500-100.

- (n) Connect all electrical plugs per Fig. 27.
- (o) Install bottom cover on List 42 mounting and front cover on post.

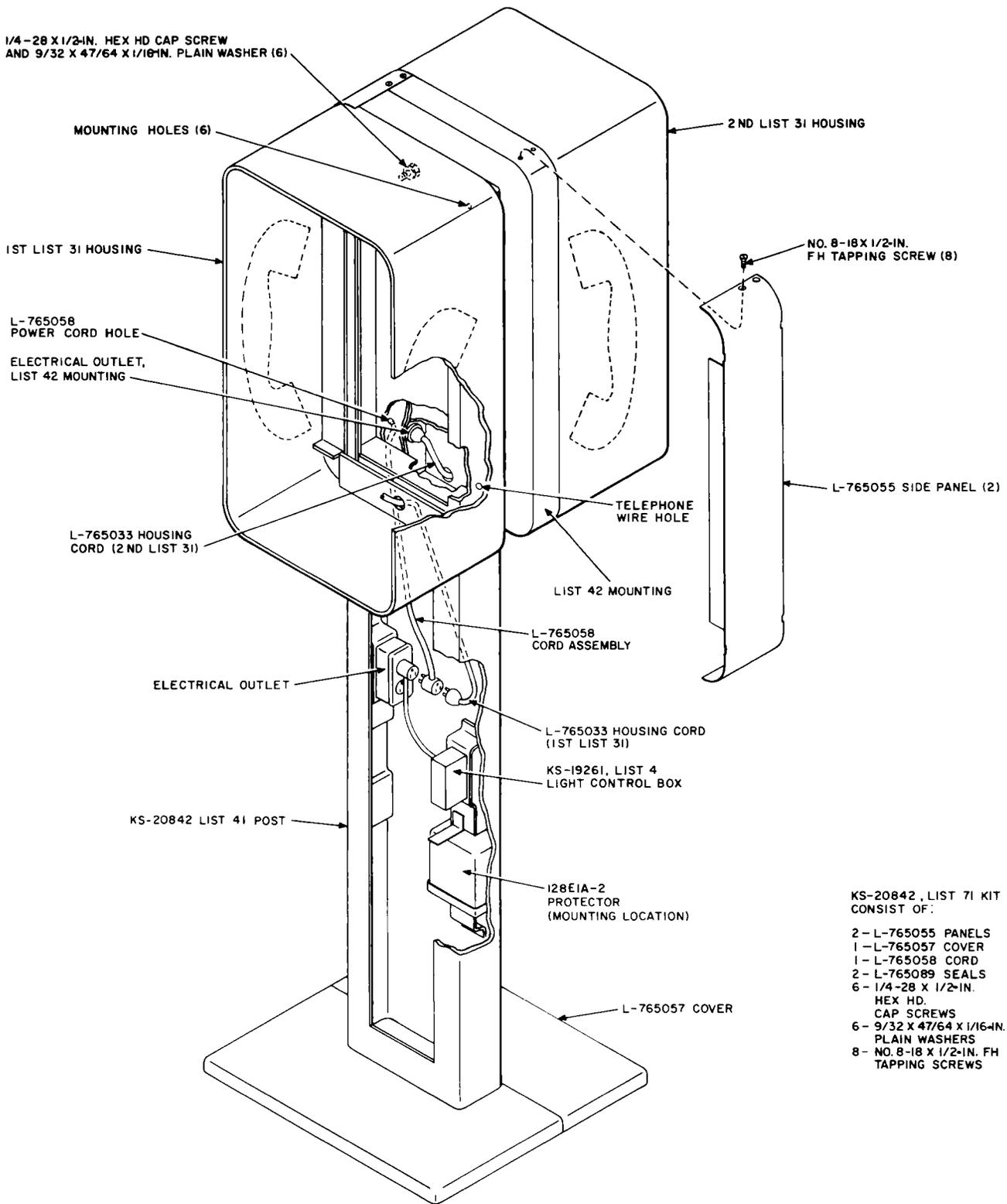
3.27 List 31A Housing Assemblies Back-To-Back on List 143 Post-Base Using List 42A Mounting and List 171A Mounting Kit (Fig. 28).

Note: The same procedure to mount the List 31 housing assembly back-to-back on List 143 post-base using List 42 mounting and List 171 mounting kit.

Danger: Use eye protection while drilling.

- (a) There are eight center-punch marks on rear of the List 143 post. Using a small drill bit (approximately 1/8-inch), drill eight pilot holes at the marks.
- (b) Using a 9/32-inch drill bit, enlarge the six upper holes.
- (c) Using a 3/8-inch drill bit, enlarge the two bottom holes. Remove the mating knockouts in the List 42A mounting, these two holes will allow the telephone and power cables to run between the post and mounting.
- (d) From the List 171A 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 (c).
- (e) From the List 171A mounting kit, use six 1/4-20 by 3/4-inch hex head screws, twelve plain washers and six 1/4-20 hex nuts and secure the List 42A mounting to the post. **Make sure the telephone and power wire holes are aligned.**
- (f) Install the first List 31A housing on the post per paragraph 3.25.
- (g) Install the two B-905563, side panels from the List 171A mounting kit as follows.
 - (1) Place the panels on each side of the List 42A mounting. **Make sure each panel edge is placed inside the lip of the List 31 housing.**

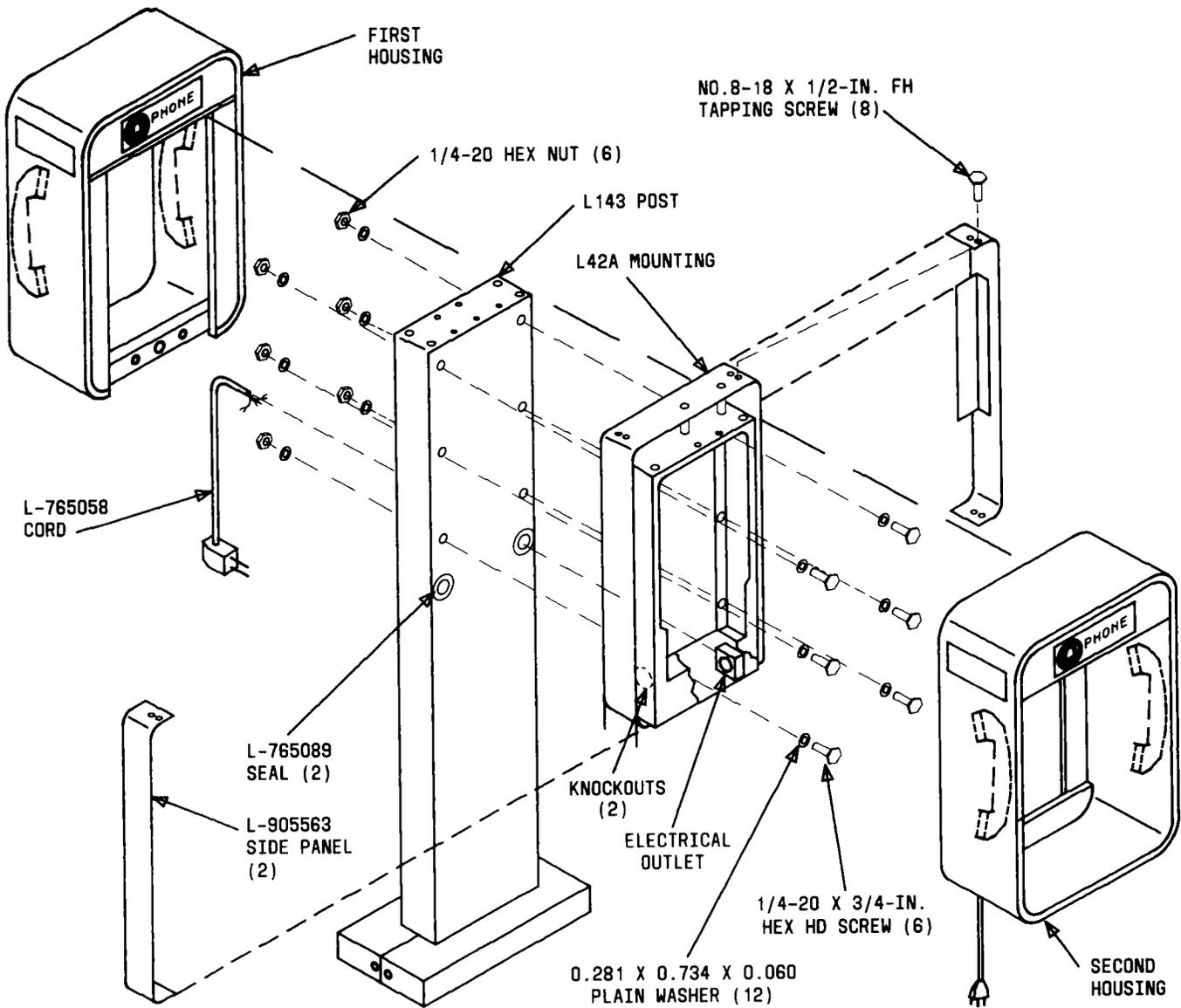
SECTION 508-452-100



- KS-20842, LIST 7I 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. 27—Installation of Two List 31 Housings, Back-to-Back On List 40 or 41 Post

- (2) Using the side panels as marking templates, mark locations for eight holes. Remove the two side panels.
 - (3) Using a No. 29 drill bit (0.136) drill the eight marked holes in the List 42A mounting.
 - (4) Reposition the two side panels and secure them with the eight No. 8-18 by 1/2-inch Phillips flathead tapping screws from the List 171A mounting kit.
- (h) Install the L-765058 cord assembly between the post and mounting as follows.
- (1) Remove front panel from post per paragraph 3.17.
 - (2) Using a KS-19192, List 1 wrench, loosen two flathead security screws and remove bottom from List 42A mounting.
 - (3) Remove the strain relief from the L-765058 cord assembly furnished with the List 171A mounting kit. Retain the strain relief.
 - (4) Run the cord assembly from the electrical outlet in post, up through the left 3/8-inch hole (as viewed from front of post) into electrical outlet box in bottom of List 42A 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 Fig. 6 in Section 508-452-103.
- (i) Install telephone wiring as follows.
- (1) Run two drops into bottom of post and terminate them on a 128E1A-2 protector.
 - (2) From one side of the protector, run a quad inside wire up through raceway in post and into the first housing position.
 - (3) Run second quad wire from the List 42A mounting through 3/8-inch hole in bottom of telephone compartment into post, down raceway, and terminate on other side of the protector.
- (j) Install second housing on the List 42A mounting per paragraph 3.25.
- (k) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.
 - (l) Connect all electrical plugs.
 - (m) Install bottom cover on List 42A mounting and front cover on post.
- 3.28 List 33 Housing Assembly With List 43 Post or List 143, 144 Post-Base; and List 45 Mounting (Fig. 29).**
- Note:** If a mast assembly is to be installed on a post, install the mast before housing (see Section 508-452-103).
- (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).
- Danger: Wear eye protection when handling the fluorescent lamps.**
- (b) Remove the two lamps.
 - (c) Remove two No. 8-32 by 1/2 truss head cross recessed screws and remove center perforated panel above coin telephone set opening for access to mounting hardware on top of post.
 - (d) Slide panel up approximately 1/2-inch, pull out at bottom and slide downward to remove.
 - (e) Remove two hex head screws and two flat washers from rear of housing at shelf level.
 - (f) 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. 29).
 - (g) Remove the two outside-front hex head screws and flat washers from top of post or mounting.
 - (h) Using the inverted screw as a locating stud, position the List 33 housing on post or mount-



KS-20842, LIST 171A KIT CONSIST OF:

- | | |
|--|--|
| 2 - L-905563 PANELS | 6 - 1/4 -20 HEX NUTS |
| 1 - L-765058 CORD | 8 - NO. 8-18 X 1/2-IN. FH TAPPING SCREWS |
| 2 - L-765089 SEALS | |
| 6 - 1/4-20 X 3/4-IN. HEX HD CAP SCREWS | |
| 12 - 0.281 X 0.734 X 0.060 PLAIN WASHERS | |

Fig. 28—Installation of Two List 31A Housings, Back-to-Back on List 143 Post-Base

ing while guiding electrical cord through the cable hole in post or mounting at bottom of housing.

- (i) Secure top portion of housing using screws and washers removed in (e). Do not tighten the screws.
- (j) Secure the middle portion of housing using screws and washers removed in (c). Do not tighten the screws.
- (k) Tighten all mounting screws.
- (l) Reinstall center panel.
- (m) Install the two fluorescent lamps.
- (n) Plug the electrical cord into the receptacle provided in lower portion of post or mounting.
- (o) Using the KS-19192, List 1 wrench, install the light diffuser and secure it with the security screws removed in (a).
- (p) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.
- (q) Install front cover on post or support.

3.29 List 33 Housing Back-To-Back on List 43 Post or List 143, 144 Post-Base Using List 195 Mounting Kit (Fig. 30).

Danger: Use eye protection while drilling.

- (a) There are eight center-punch marks on rear of the List 43 post or List 143, 144 post-base. Using a small drill bit (approximately 1/8-inch) drill eight pilot holes at the marks.
- (b) Using a 9/32-inch drill bit enlarge the six upper holes.
- (c) Using a 3/8-inch drill bit, enlarge the two bottom holes. Remove the two mating knockouts in the List 45 mounting. These two holes will allow the telephone and power cables to run between the post and mounting.
- (d) From the List 195 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 (c).

- (e) From the List 195 mounting kit, use six 1/4-20 by 3/4-inch hex head screws, twelve plain washers and six 1/4-20 hex nuts and secure the List 45A mounting to the post. **Make sure the telephone and power holes are aligned.**
- (f) Install the first housing on the post per paragraph 3.28.
- (g) Install the L-765058 cord between the post and mounting as follows.
 - (1) Remove front panel from post per paragraph 3.10.
 - (2) Using a KS-19192, List 1 wrench, loosen two flathead security screws and remove bottom cover from the List 45 mounting.
 - (3) Remove the strain relief from the L-765058 cord furnished with the List 195 mounting kit. Retain the strain relief.
 - (4) Run the cord from the electrical outlet in post, up through the left 3/8-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 Fig. 6 in Section 508-452-103.
- (h) Install telephone wiring as follows.
 - (1) Run two drops into bottom of post and terminate them on a 128E1A-2 protector.
 - (2) From one side of the protector, run a quad inside wire up through raceway in post and into the first housing position.
 - (3) Run second quad wire from the List 45 mounting through 3/8-inch hole in bottom of telephone compartment into post, down raceway and terminate on other side of the protector.
- (i) Install second housing on the List 45 mounting per paragraph 3.28.

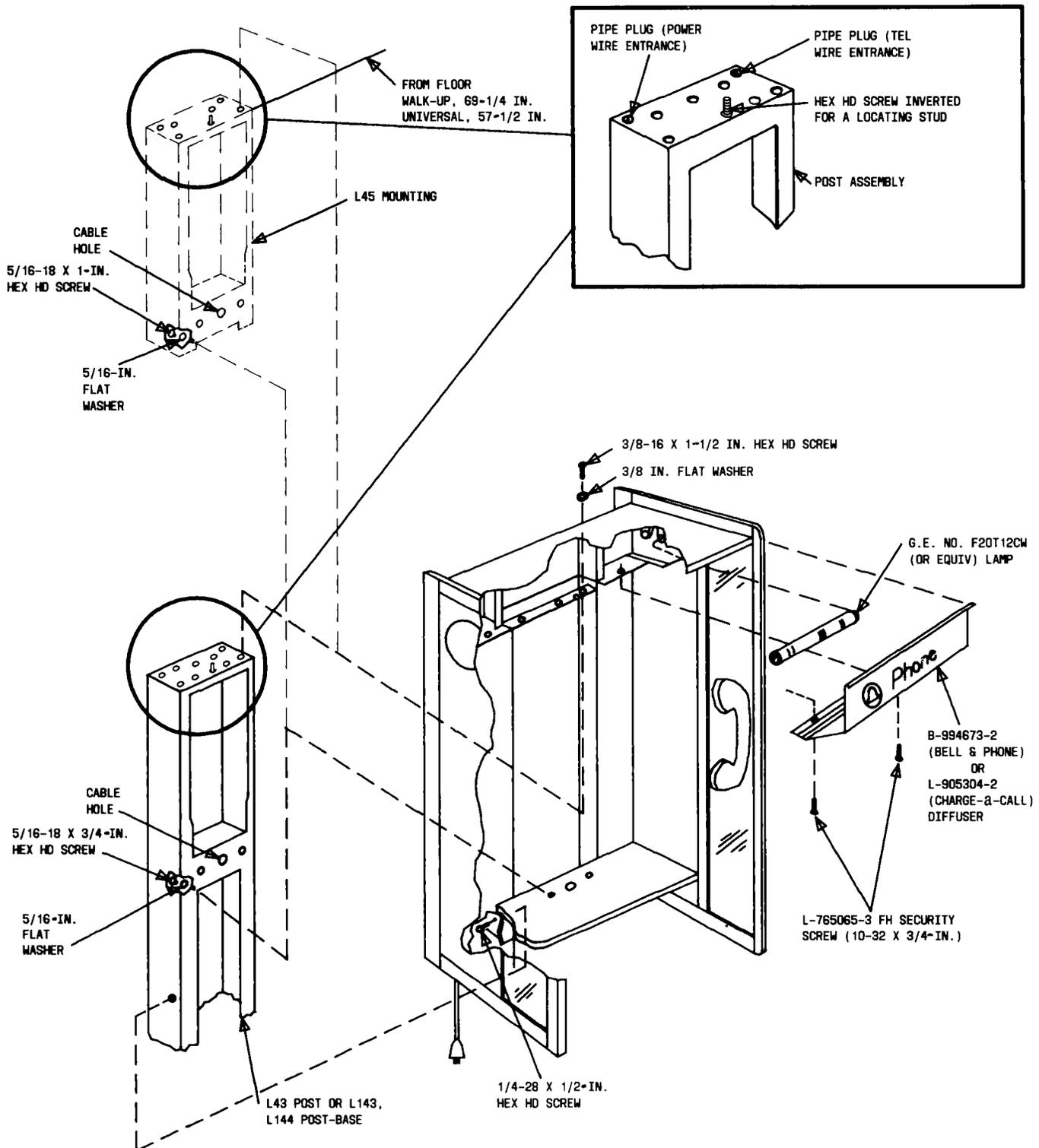


Fig. 29—Installation of List 33 Housing on List 43 Post or 143, 144 Post-Base and List 45 Mounting

(j) Install 1-type coin telephone sets per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100. Terminate both telephone lines on the 128E1A-2 protector in the post.

(k) Connect all electrical plugs.

(l) Install bottom cover on List 45 mounting and front cover on post.

3.30 List 33 Housing Assemblies Side-By-Side (Fig. 31).



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

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

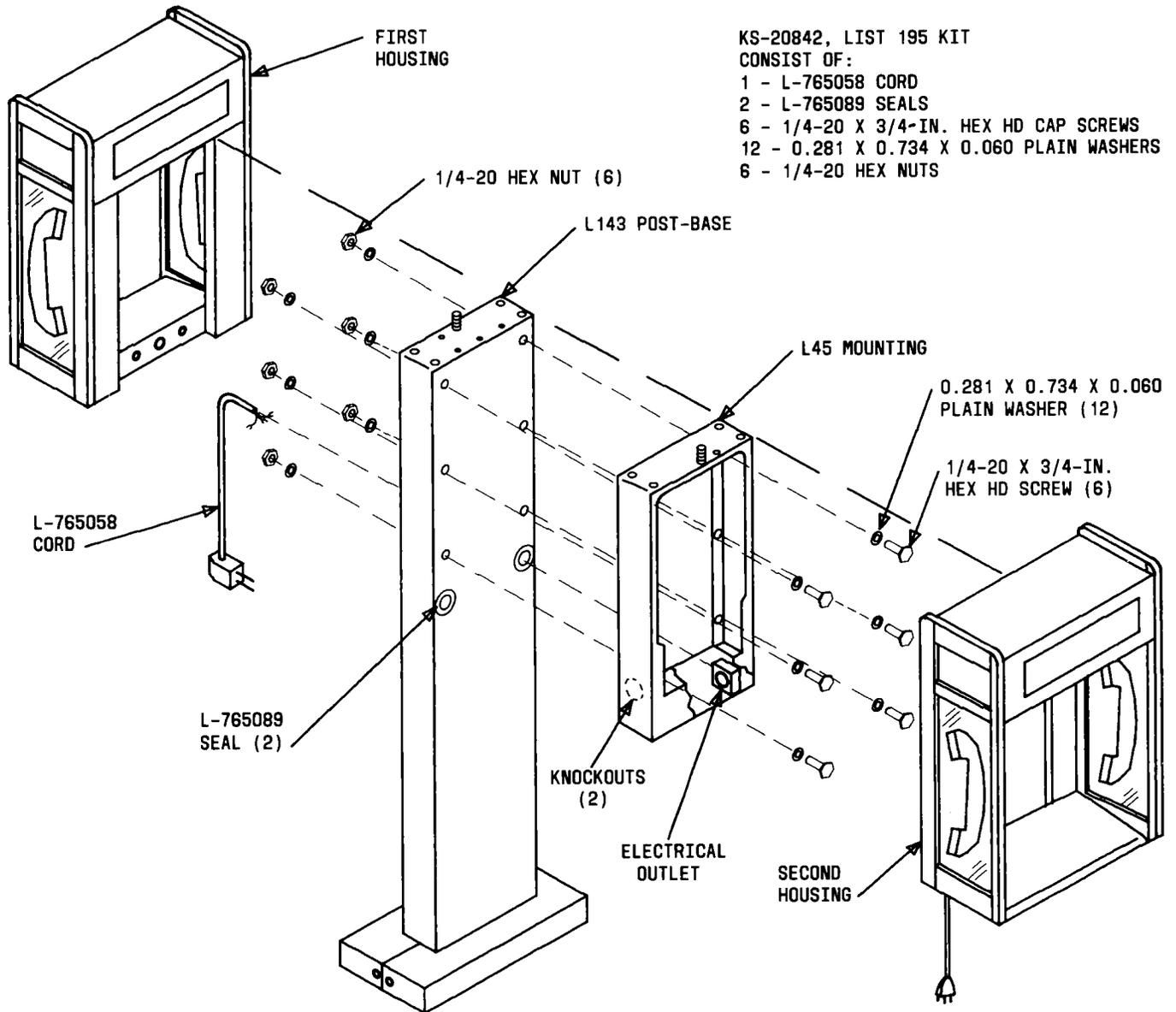


Fig. 30—Installation of Two List 33 or 35A Housings Back-to-Back on a List 143 Post-Base Using List 195 Mounting Kit

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 33 housing on the first station per paragraph 3.28 (a) through (j).

(b) From the right wing of the first station, replace the Bell Symbol sign with an L-67093 panel (Fig. 32) 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 33 housing on the second station per paragraph 3.28 (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 (Fig. 31) along with L-767028-1 glazing strip.

(f) Install the side rail back in its original position.

(g) 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. 33.

(i) Secure the cord to housing with speed clips from List 73 kit per Fig. 33.

(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 paragraph 3.28 (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.

3.31 **List 35A Housing Assembly with List 143 or 144 Post-Base (Fig. 34).**

Note: If a mast assembly is to be installed on a post, install the mast before housing (see Section 508-452-103).

(a) Using a KS-19192, List 1 wrench, loosen two fasteners and remove the front bezel assembly (Fig. 34).

(b) Slide the diffuser forward and remove.

Danger: 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. Invert screw, and install it back in the same hole from the opposite side for use as a locating stud (Fig. 34).

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

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

Danger: It is recommended that a 3/8-inch square drive ratchet wrench with a 9/16-inch extra deep socket be used when tightening the screws used to mount top portion of housing.

(h) Secure top portion of housing to post using the two 3/8-16 by 1-1/4 hex head screws and two

KS-20842, LIST 73
KIT CONSIST OF:

2-L-767093 PANELS
2-L-767094 GROMMETS
2-SPEED CLIPS TINNEMAN
PRODUCTS INC. NO.
(C-2835-025)

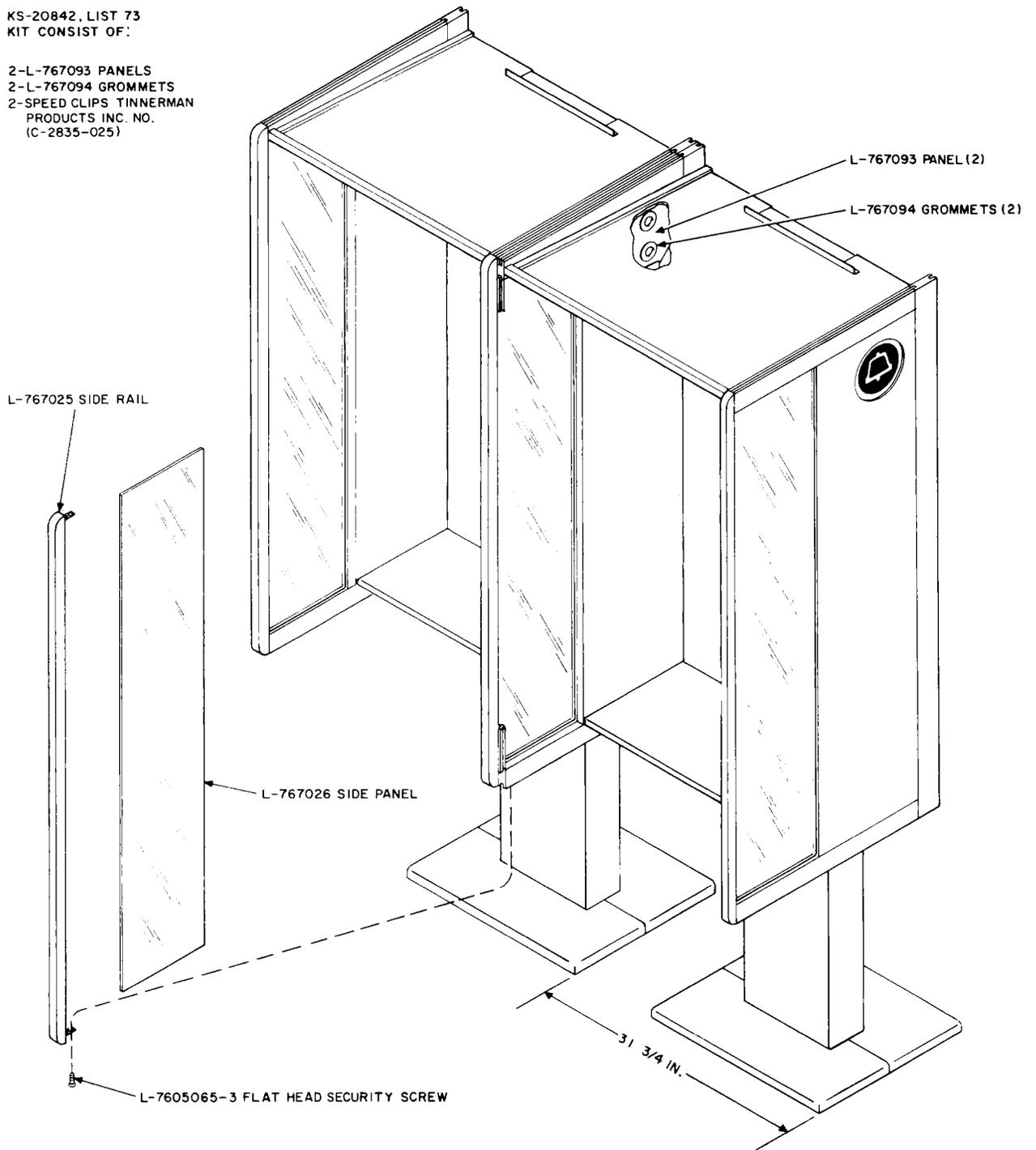


Fig. 31—List 33 Housings, Installed Side-by-Side

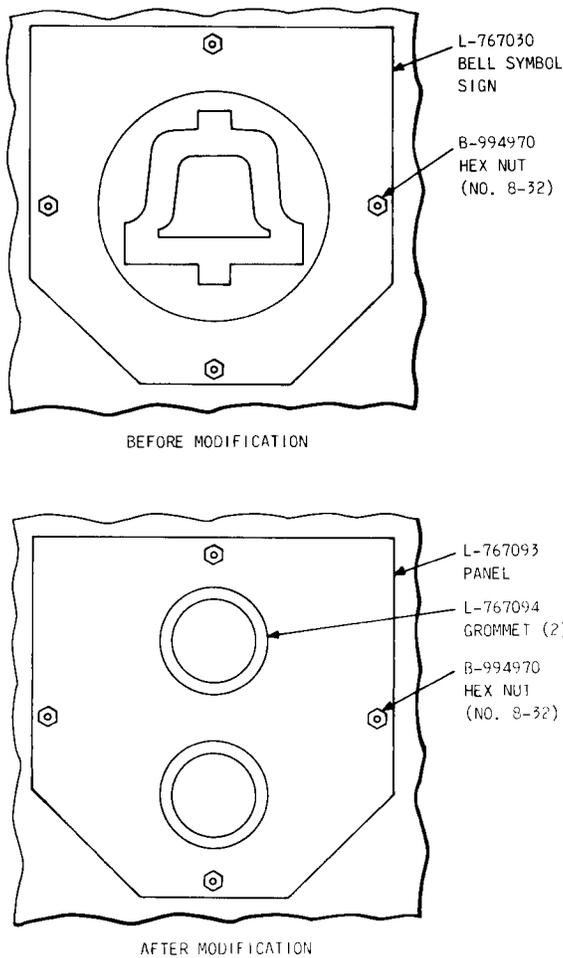


Fig. 32—Replacing Bell Symbol Sign With Panel

3/8-inch flat washers as required, maximum of three (3). Do not tighten the screws.

- (i) Secure the lower portion of housing to post 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.
- (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. Install 10A coinless telephone set per Section 506-500-100.

(o) Install front covers on post or support.

3.32 List 35A Housing Assembly With List 45 Mounting and List 62 Finishing Strip Kit (Fig. 35).

- (a) Install List 45 mounting on wall, paragraph 3.23.
- (b) Using a KS-19192, List 1 wrench, loosen two fasteners and remove the front bezel assembly (Fig. 34).
- (c) Slide the diffuser forward and remove.

Danger: Wear eye protection when handling the fluorescent lamps.

- (d) Remove the two lamps.
- (e) Remove two hex head screws and two flat washers from rear of housing at shelf level.
- (f) Remove the center-front hex head screw and flat washer from top of mounting. Invert screw, and install it back in the same hole from the opposite side for use as a locating stud.
- (g) Remove the two outside-front hex head screws and flat washers from top of mounting and discard screws and washers.
- (h) Remove two screws from the groove located on the List 35A housing rear side rails (lower screw at top and upper screw at bottom).
- (i) Insert side finishing strips (item 1) in the groove of the rear side rails and fasten with screws removed in (h).

Danger: It is recommended that a 3/8-inch square drive ratchet wrench with a 9/16-inch extra deep socket be used when tightening the screws used to mount top portion of housing.

- (j) Secure top portion of housing to mounting using the two 3/8-16 by 5-1/2 hex head screws and two 3/8-inch flat washers as required, maximum of three (3). Do not tighten the screws.

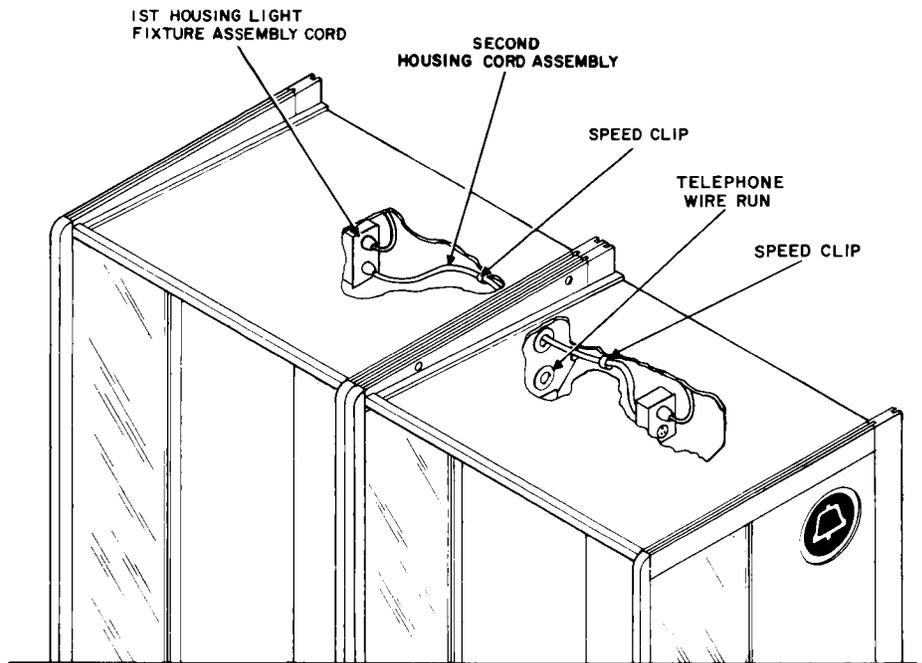


Fig. 33—Wire-Runs Between Two List 33 Housings, Side-By-Side

(k) Secure the lower portion of housing to mounting using the two 5/16-18 by 3/4 hex head screws and two 5/16-inch flat washers removed in (e).

(l) Tighten all mounting screws.

(m) Place top finishing strip (item 2) on side finishing strips (item 1) and secure with two screws (item 3).

Note: Remove knockouts from top finishing strip if electrical and telephone conduit enters top of List 45 mounting.

(n) Install the two fluorescent lamps.

(o) Plug the electrical cord into the receptacle provided in lower portion of mounting.

(p) Install light diffuser and secure it with the front bezel assembly.

(q) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set for Section 506-500-100.

3.33 List 35A Housing Assemblies Back-To-Back on a List 143 Post-Base Using List 195 Mounting Kit (Fig. 30).

Danger: Use eye protection while drilling.

(a) There are eight center-punch marks on rear of the List 143 post-base. Using a small drill bit (approximately 1/8-inch) drill eight pilot holes at the marks.

(b) Using a 9/32-inch drill bit, enlarge the six holes.

(c) Using a 3/8-inch drill bit, enlarge the two bottom holes. Remove the two mating knockouts in the List 45 mounting. These two holes will allow the telephone and power cables to run between the post and mounting.

(d) From the List 195 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 (c).

(e) From the List 195 mounting kit, use six 1/4-20 by 3/4-inch hex head screws, twelve plain

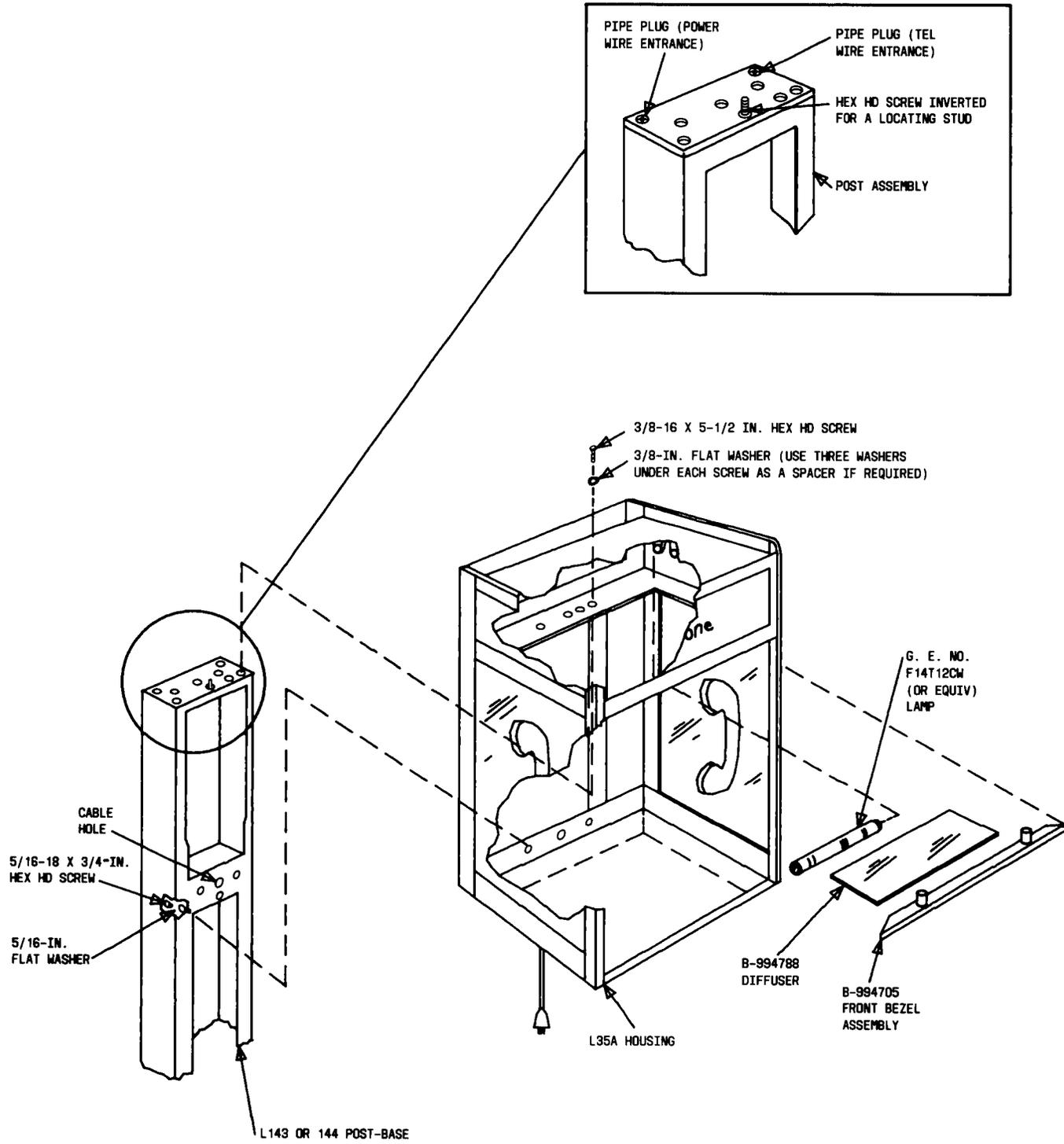


Fig. 34—Installation of List 35A Housing on List 143 or 144 Post-Base

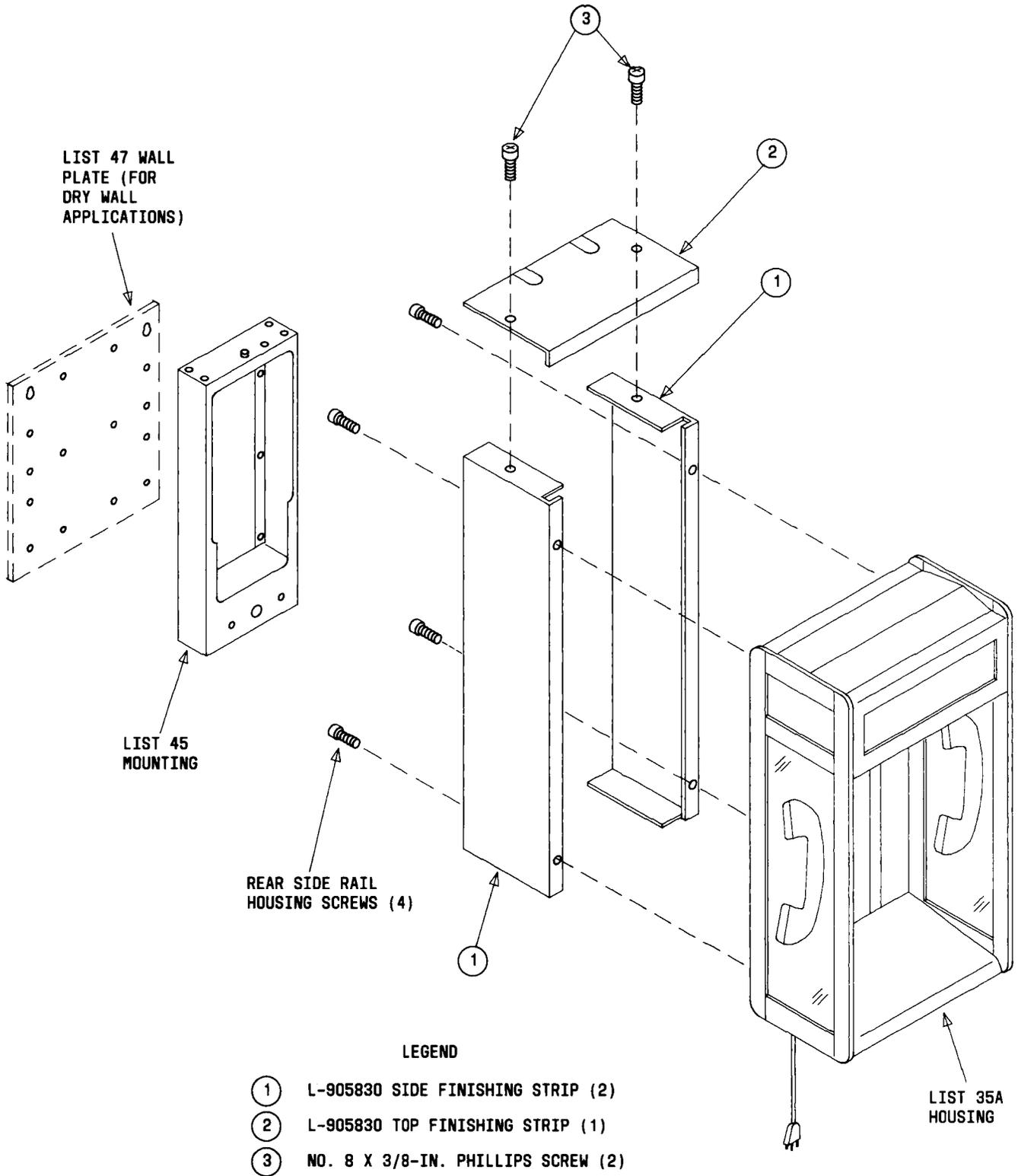


Fig. 35—List 35A Housing Assembly With List 45 Mounting and List 62 Finishing Strip Kit

SECTION 508-452-100

washers and six 1/4-20 hex nuts and secure the List 45 mounting to the post. **Make sure the telephone and power wire holes are aligned.**

- (f) Install the first housing on the post per paragraph 3.28.
- (g) Install the L-765058 cord between the post and mounting as follows.

- (1) Remove front panel from post per paragraph 3.10.
- (2) Using a KS-19192, List 1 wrench, loosen two flathead security screws and remove bottom cover from the List 45 mounting.
- (3) Remove the strain relief from the L-765058 cord furnished with the List 195 mounting kit. Retain the strain relief.
- (4) Run the cord from the electrical outlet in post, up through the left 3/8-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.

- (h) Install telephone wiring as follows.

- (1) Run two drops into bottom of post and terminate them on a 128E1A-2 protector.
- (2) From one side of the protector, run a quad inside wire up through raceway in post and into the first housing position.
- (3) Run a second quad wire from the List 45 mounting through 3/8-inch hole in bottom of telephone compartment into post, down raceway and terminate on other side of the protector.

- (i) Install second housing on the List 45 mounting.
- (j) Install 1-type coin telephone sets per Section 506-110-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.

Terminate both telephone lines on the 128E1A-2 protector in the post.

- (k) Connect all electrical plugs.

- (l) Install bottom cover on List 45 mounting and front cover on post.

3.34 List 35A Housing Assemblies Back-To-Back on a 143 Post-Base With List 63 Finishing Strip Kit (Fig. 36).

- (a) Install List 143 post-base, List 35A housing (first housing), and List 45 mounting, paragraph 3.31 and 3.35.

Note: If a mast assembly is to be installed on a post, install the mast before housing (see Section 508-452-103).

- (b) Using a KS-19192, List 1 wrench, loosen two fasteners and remove the front bezel assembly (Fig. 34) first housing.

- (c) Slide the diffuser forward and remove.

Danger: Wear eye protection when handling the fluorescent lamps.

- (d) Remove the two lamps.
- (e) Remove two hex head screws and two flat washers from rear of housing at shelf level.
- (f) Remove the center-front hex head screw and flat washer from top of mounting. Invert screw and install it back in the same hole from the opposite side for use as a locating stud.
- (g) Remove the two outside-front hex head screws and flat washers from top of mounting and discard screws and washers.
- (h) Remove two screws from the groove located on the List 35A housing (first housing) rear side rails (lower screw at top and upper screw at bottom).
- (i) Insert side finishing strips (item 1) in the groove of the rear side rails and fasten with screws removed in (h).
- (j) Install second List 35A housing on List 45 mounting, engaging the List 63 side finishing

strips (item 1, Fig. 36) and grooves of rear side rails of the second housing.

Note: If it is not necessary to fasten the finishing strips with screws to the second housing.

Danger: *It is recommended that a 3/8-inch square drive ratchet wrench with a 9/16-inch extra deep socket be used when tightening the screws used to mount top portion of housing.*

(k) Secure top portion of housing to mounting using the two 3/8-16 by 5-1/2 hex head screws and two 3/8-inch flat washers as required, maximum of three (3). Do not tighten the screws.

(l) Secure the lower portion of housing to mounting using the two 5/16-18 by 3/4 hex head screws and two 5/16-inch flat washers removed in (e).

(m) Tighten all mounting screws.

(n) Place top finishing strip (item 2) on side finishing strips (item 1) and secure with two screws (item 3).

Note: Remove knockout in top finishing strip (item 2) if a mast was installed.

(o) Install the two fluorescent lamps.

(p) Plug the electrical cord into the receptacle provided in lower portion of mounting.

(q) Install light diffuser and secure it with the front bezel assembly.

(r) Install 1-type coin telephone per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set for Section 506-500-100.

3.35 **List 35A Housing Assemblies Side-By-Side Using List 74 Mounting Kit (Fig. 37).**



Install posts (two or more) or mounting in a straight line located on 21-1/4 inch centers.

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

(a) Install both housings per paragraphs 3.31 (a) through (o).

(b) From the right wing of the first station, remove front rail and side sign including glazing strip per Section 508-452-103.

(c) From the second station, remove left front rail and side sign including glazing strip per Section 508-452-103.

(d) Remove glazing strips from side signs.

Caution: *Do not break sealed upper corners (Fig. 37). Assemble the glazing strips on the side filler panels furnished in the List 74 mounting kit.*

(e) From the mounting kit insert the two L-767094-2 grommets in side filler panels (if required).

(f) Slide the pair of side filler panels, including grommets in place of the side signs previously removed.

(g) At second station, remove the left glass panel including the glazing strip. Discard per local instructions.

(h) Replace the front rail previously removed on stations one and two.

(i) At second station, remove the left inside panel, also box cover and cable clamp from under the shelf.

(j) Pull the electrical cord of the second station up through the housing and feed it through the top grommet into the first station and plug cord into the side of the receptacle.

(k) Fold the excess cord of the second station down in the channel where the panel was removed.

(l) Install left inside panel, box cover, and clamp removed in (i).

(m) With station one and two properly aligned and mated to each other, tighten all mounting screws.

(n) Install the two fluorescent lamps.

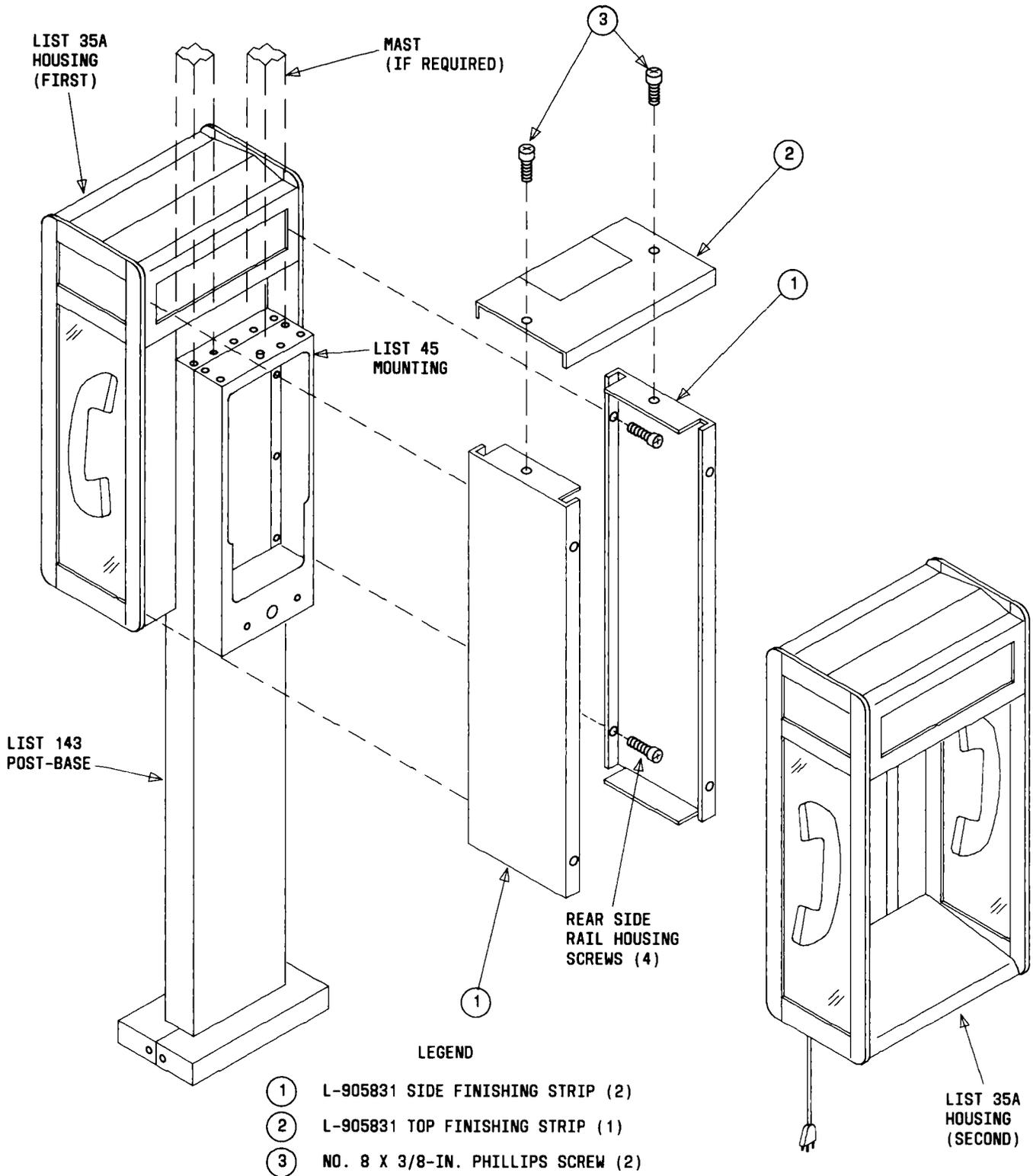
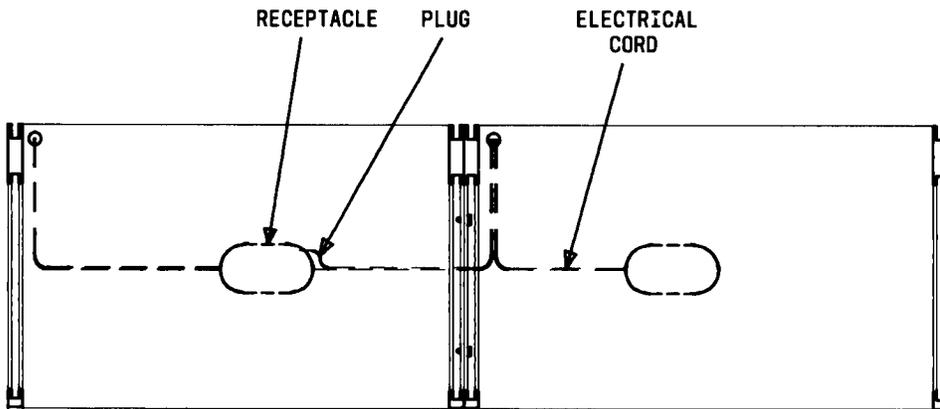


Fig. 36—List 35A Housing Assemblies, Back-to-Back on a List 143 Post-Base With List 63 Finishing Strip Kit

- (o) Plug the electrical cord into the receptacle provided in lower portion of post.
- (p) Install light diffuser and secure it with the front bezel assembly.
- (q) Install 1-type coin telephone set per Section 506-410-400 or TOP 506-410-402. Install 10A coinless telephone set per Section 506-500-100.
- (r) Install front cover on post or support.



KS-20842, LIST 74 KIT
 CONSIST OF:
 2-B-994757 SIDE FILLER PANELS
 2-L-767094-2 GROMMETS

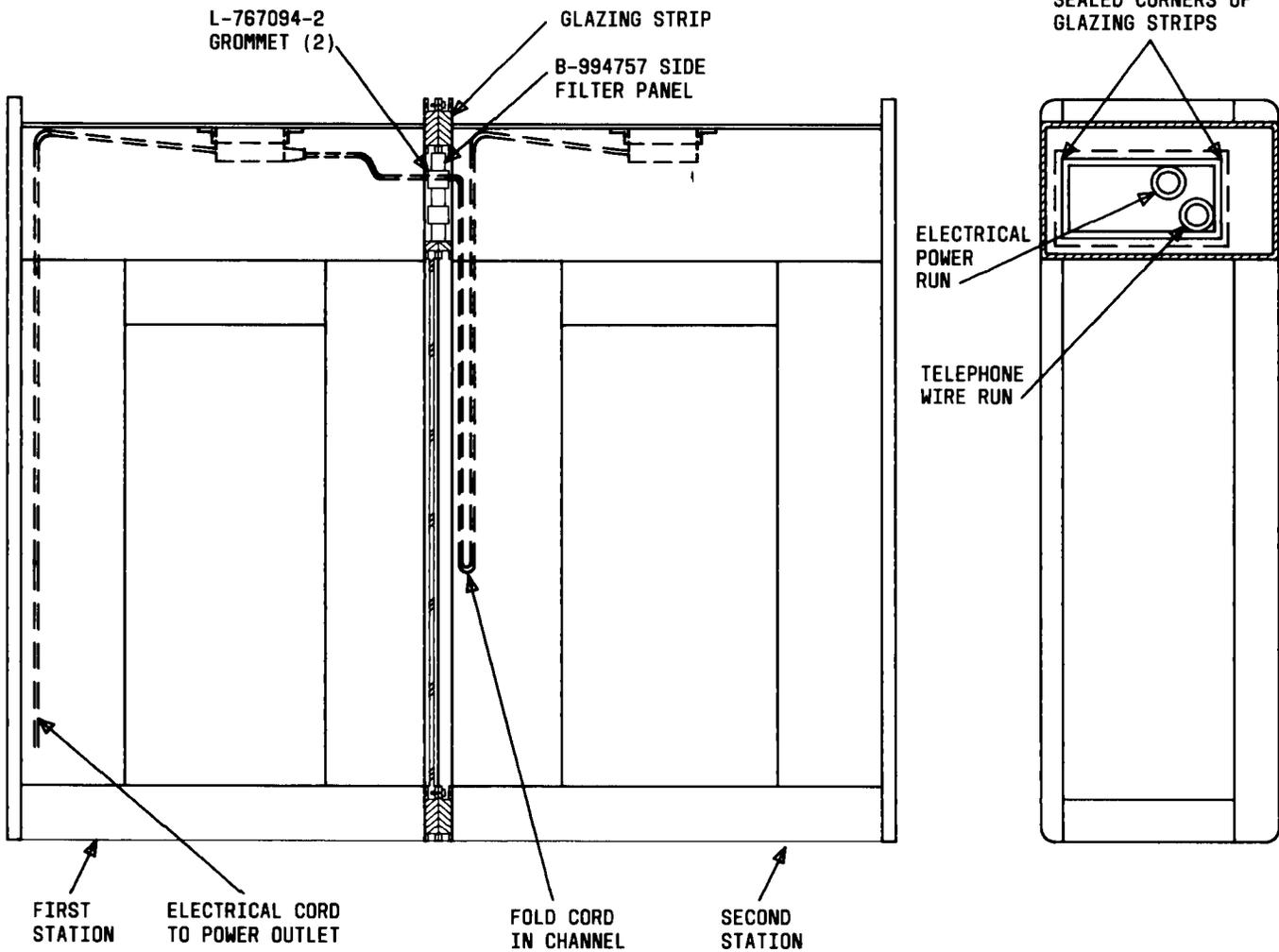


Fig. 37—Installation of Two List 35A Housing Assemblies Side-by-Side Using List 74 Mounting Kit