

WALK-UP, DRIVE-UP PUBLIC TELEPHONES

KS-19426 MOUNTING

INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This section is reissued to:

- Revise references
- Revise Fig. 9

2. INSTALLATION

PEDESTAL MOUNTINGS (Fig. 1 and 2)

Note 1: Pedestal kits may be installed on concrete or wooden surfaces. When asphalt surfaces are used, a concrete base 24-inches square and 36-inches deep is required.

Note 2: Wooden surfaces must have a minimum thickness of 2 inches.

Note 3: The concrete base for walk-up installations shall be flush with ground level.

Note 4: The concrete base for drive-up installations shall extend 6 inches above road level.

Note 5: Where a curb does not exist to protect drive-up mountings from damage by vehicles, a concrete base 48-inches long, 24-inches wide, and 36-inches deep shall be embedded in the ground with the 24-inch dimension paralleling the road and 6 inches extending above ground level.

Note 6: Where a curb already exists the concrete base for a drive-up mounting is required to be only 24-inches deep.

2.01 Base

- (a) Place base (Fig. 3) in the exact position that pedestal will be mounted.

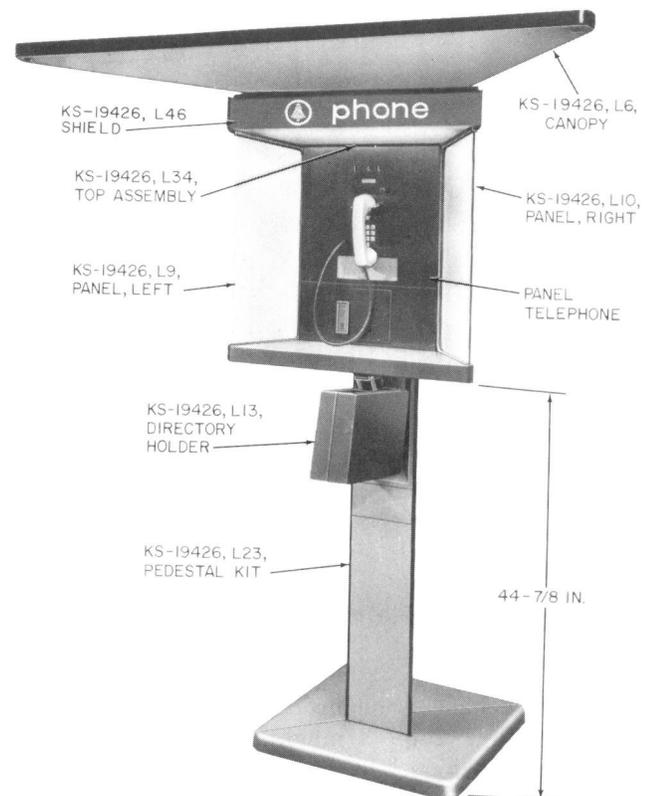


Fig. 1—KS-19426 Mounting for Walk-Up Service

- (b) Using the base as a template, mark the location for eight mounting holes.



When underground entrance is made, the front-center mounting fastener may be sacrificed.

- (c) Remove the base from the drilling area.



Eye protection shall be worn while drilling.

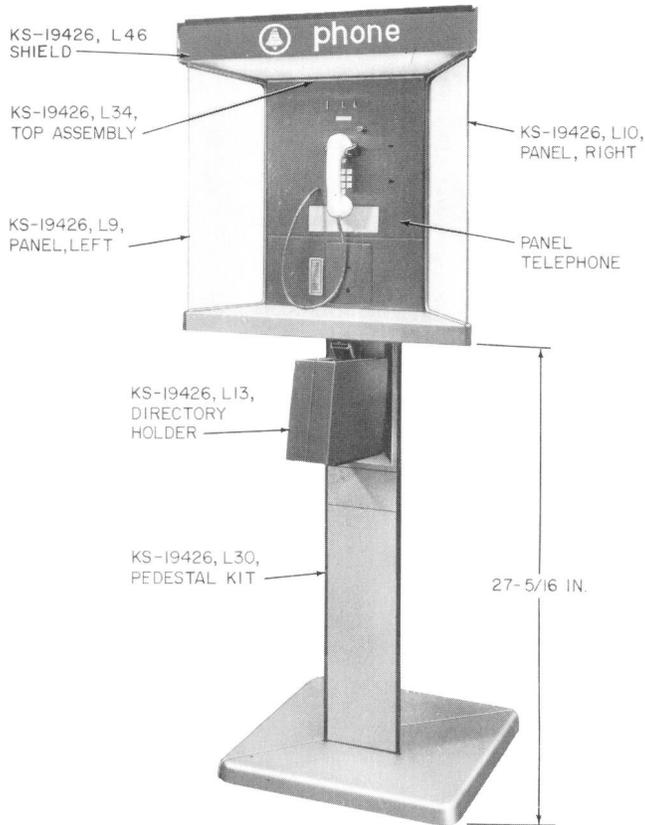


Fig. 2—KS-19426 Mounting for Drive-Up Service

- (d) The base is secured to a masonry surface with 1/2 by 3 machine bolts. Select the proper machine bolt anchor to accommodate this size bolt and drill holes to accept anchor.
- (e) The base is secured to a wooden surface with 5/8 by 3 lag screws. Drill 1/2-inch hole 2 inches deep for these screws.
- (f) Secure base to mounting surface using bolts described in (d) or (e).

Note: The baseplate must be level to ensure proper operation of the coin collector or telephone. Use shimming washers as necessary to ensure leveling.

2.02 Post

- (a) Loosen three tamper proof screws and remove B-564438 shroud and door assembly from the post(s) (Fig. 4).

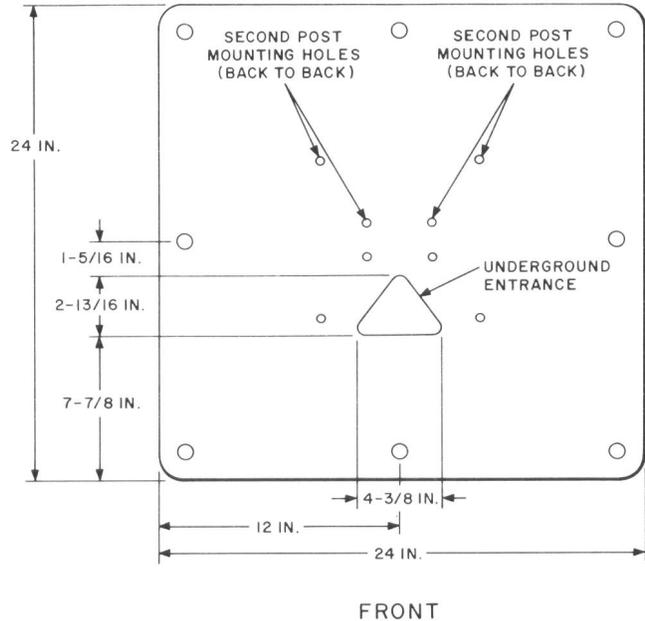


Fig. 3—B-565322 Base

- (b) Remove B-533020 or B-564416 enclosure assembly (Fig. 4) from the post(s) by sliding up and disengaging clips.
- (c) Install the post to the base over the underground entrance hole using four 5/8-11 by 1-1/2 hex head bolts. Do not tighten bolts. See Fig. 5 for installation requirements.
- (d) For back-to-back installations, secure the second post to the base in the position provided using bolts as described in (c). Do not tighten bolts.



When assembling posts back-to-back with wire housing or supports, do not tighten bolts securely until all parts have been mounted. This allows for final alignment before tightening bolts.

- (e) For back-to-back installations (View B, Fig. 6), install KS-19426, List 16 wire housing between the two posts using the four nipples supplied with housing. Install wire housing with the lip flush with top of posts.
- (f) For cluster mounting installations (Views C and D, Fig. 6) install KS-19426, List 4

support(s) between the posts using six 1/4-20 by 1/2 hex head bolts for each support.

- (g) Ensure that post(s) are plumb and tighten mounting bolts.
- (h) If this installation is to have underground wiring, install telephone wiring at this time using the right-hand hole in the gusset (Fig. 4).

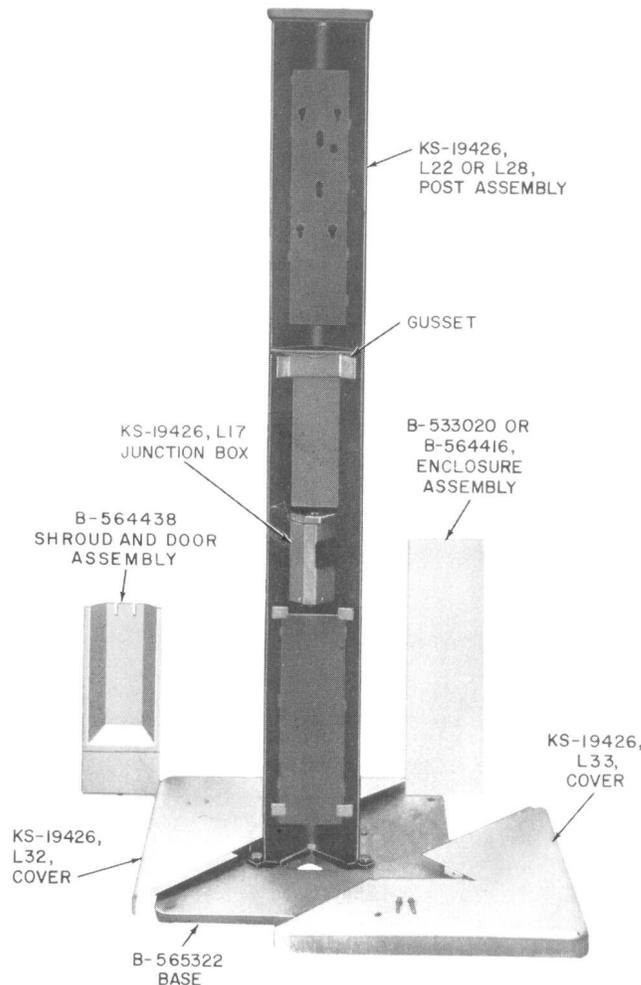


Fig. 4—Installation of Base and Post Covers

2.03 List 1 Housing

- (a) Remove two screws and remove light fixture from housing.
- (b) Install KS-19426, List 1 housing on post(s) and/or support(s) using six No. 8-32 by 3/8

flathead screws and three No. 8-32 by 3/8 round head screws. Install round head screws at the top.



Ensure that neoprene gasket (furnished with housing) is installed between housing and post(s) and/or support(s) across the top.

- (c) For multiple installations, tie the housings together using 1/4-20 by 1/2 machine bolts. Ensure that front edges of housings are even.

Note: One knockout is located behind the light fixture on each side of the housing for the bolts.

- (d) Install light fixture, removed in (a), using two No. 8-32 by 1/4 round head screws. Ensure that back edge engages bracket on inside-top of housing.

2.04 List 6 Canopy: Install KS-19426, List 6 canopy (Fig. 1), if required, as follows:



If a mast for overhead wiring is used, install B-564433 fitting inside canopy into threaded hole in post. This will separate the telephone and power wires. See 2.05 for installation of mast.

- (1) Remove and discard three machine bolts from the top of post(s) and/or support(s).
- (2) Place canopy on post or support.
- (3) Place B-563018 plate and neoprene gasket on top of canopy at the apex.
- (4) Secure canopy to post and/or support using one 3/8-16 by 6-3/4 hex head bolt (at apex) and two 3/8-16 by 6-1/2 hex head bolts which are furnished with canopy.
- (5) Unless a mast is used, plug up the two wiring holes in B-563018 plate using the pipe plugs furnished.
- (6) For multiple installations, tie the canopies together, 4 inches from the front corners, using No. 12-24 by 3/4 machine bolts and No. 12-24 hex nuts.

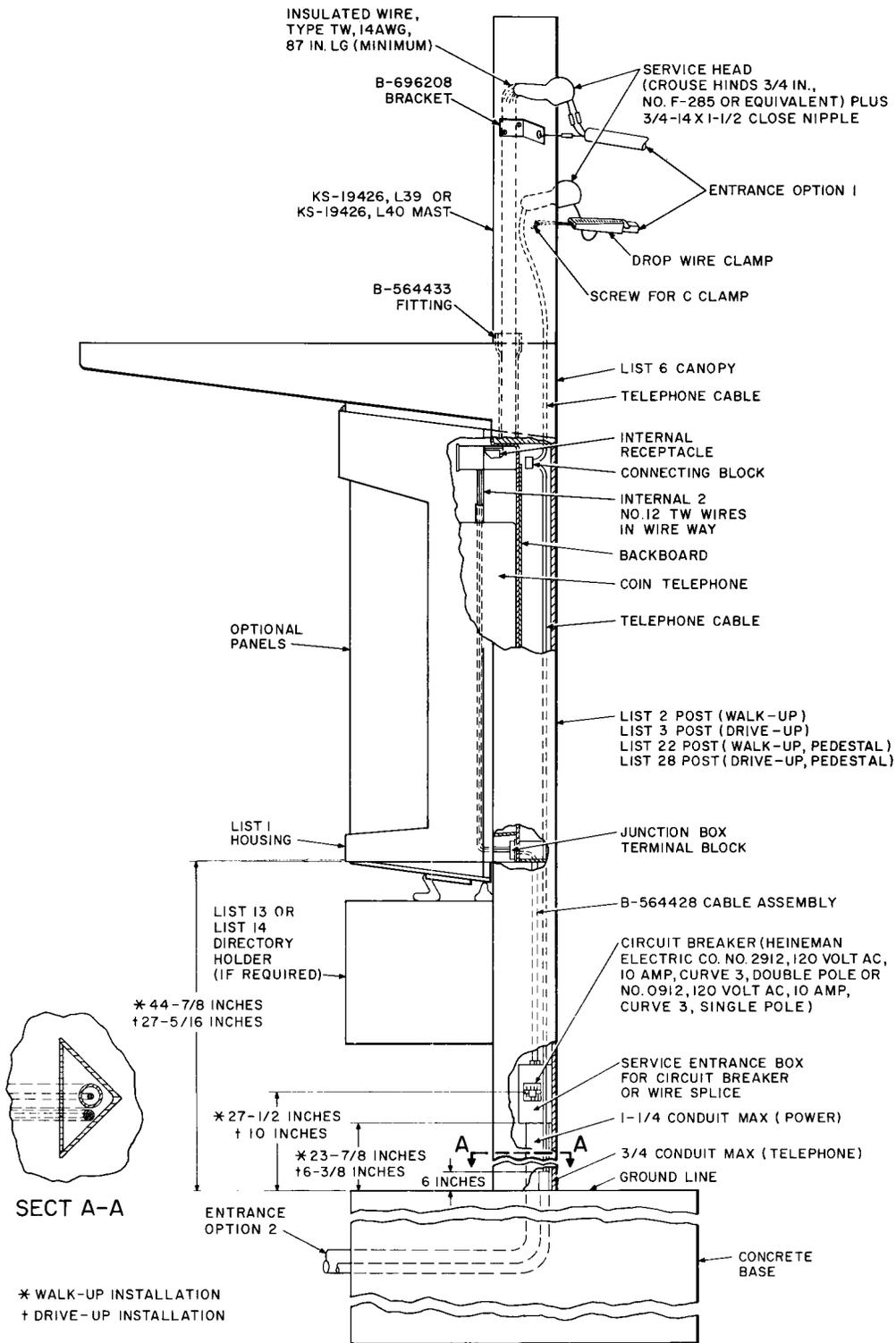


Fig. 5—Installation Requirements for Post or Pedestal Mounting

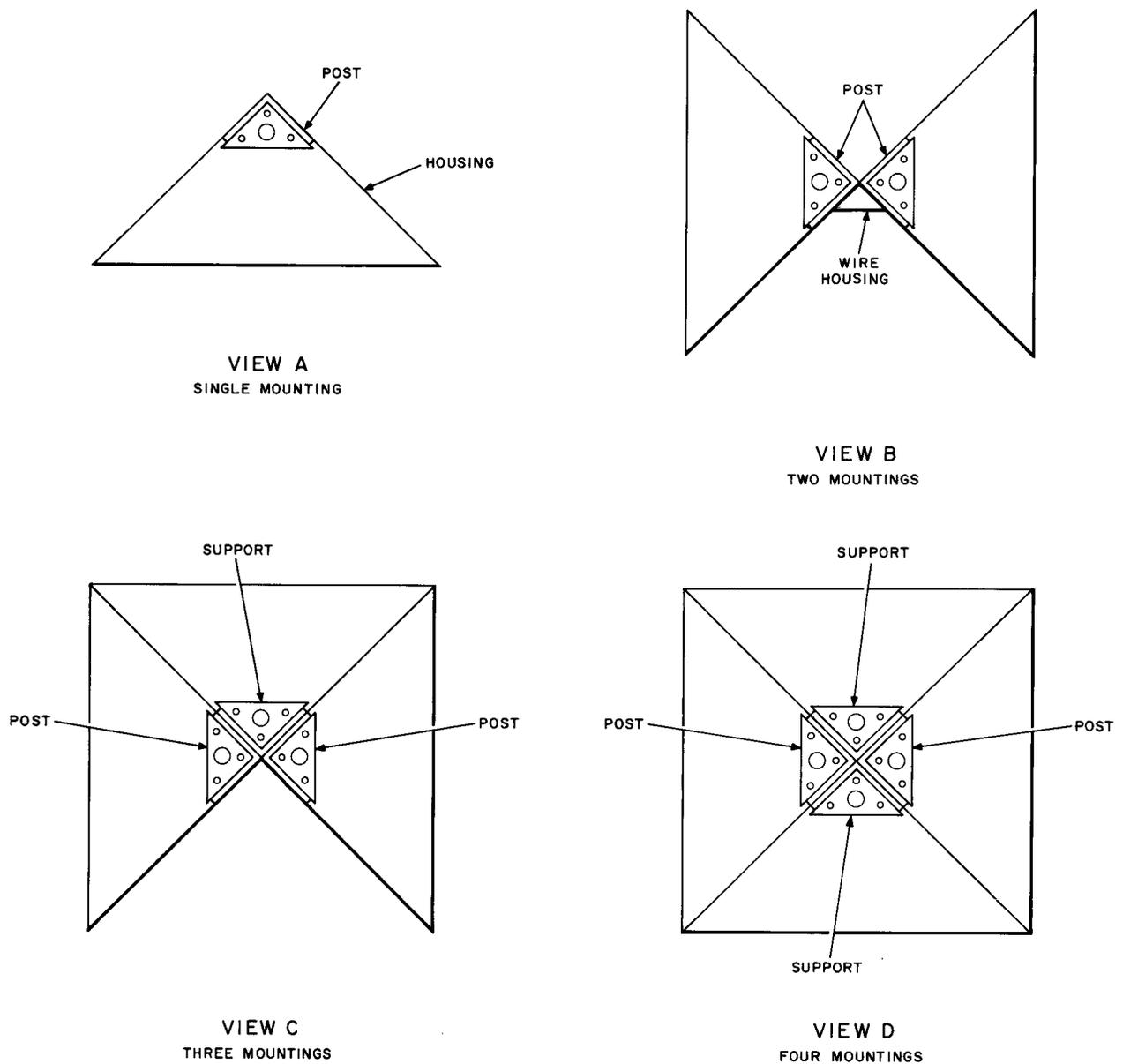


Fig. 6—Various Arrangements for Post Mountings

2.05 List 39 Mast: If a canopy is used, install KS-19426, List 39 mast, if required, as follows:

- (1) Install B-696200 adapter with neoprene gasket on top of canopy using two 3/8-16 by 7 hex socket head cap screws. Leave hole at apex open.
- (2) Insert power wires through opening in adapter and canopy (with B-564433 fitting) and install mast on adapter. Secure mast to adapter using

two 3/8-16 by 1-1/2 hex head bolts. Further secure mast at apex by inserting 3/8-16 by 8-1/2 hex head bolt through mast, adapter, canopy, and into post.

2.06 List 40 Mast: If a canopy is not used, install KS-19426, List 40 mast, if required, as follows:

- (1) Remove and discard three bolts from top of post.

- (2) Install B-696201 adapter with neoprene gasket on top of post using two 3/8-16 by 1-1/4 hex socket head cap screws. Leave hole at apex open.
- (3) Insert power wires through opening in adapter and install mast on adapter. Secure mast to adapter using two 3/8-16 by 1-1/2 hex head bolts. Further secure mast at apex by inserting 3/8-16 by 2-1/2 hex head bolt through mast, adapter, and into post.

2.07 First Attachment: If a mast is used, make the first attachment for telephone entrance.

THINK *Observe local regulations for minimum wire clearance. Bottom entrance head on mast is for telephone wire entrance. A drop wire hook or first attachment bracket is fastened by a 1/4-inch bolt under entrance head. The slit rubber grommet may be used and the entrance head omitted if conditions permit.*

2.08 Internal Wiring: Install telephone wiring as outlined in 2.37 through 2.40 and install electric wiring as outlined in 2.41 through 2.47.

2.09 Side Panels: Install panels as follows (Fig. 7):

Note 1: For ease of installation, screws under shelf may be loosened and shelf moved forward.

- (1) Slide left panel into position.
- (2) Secure bottom of panel to housing using three No. 8-32 by 5/16 round head screws, inserted from under shelf.
- (3) Secure top rear portion of panel to housing using B-564411 slotted retainer and one No. 8-32 by 5/16 round head screw.

CAUTION *In the acoustic panels, the slotted retainer must be tapered in order for it to slide down in the panel.*

- (4) For narrow panel, install B-563247 top retainer with lip toward inside using one No. 8-32 by 3/16 flathead screw.

- (5) For narrow panel, install B-563234-2 bottom retainer, with lip toward outside using one No. 8-32 by 5/8 round head screw.
- (6) For wide panel, install B-563234-1 bottom retainer, with lip toward outside, using one No. 8-32 by 5/8 round head screw.
- (7) If an acoustic panel is used, secure top of panel to housing using No. 8 self-tapping screw.
- (8) Slide right panel into position.
- (9) Perform operations outlined in (2) and (3).
- (10) For narrow panel, install B-563248 top retainer, with lip toward inside, using one No. 8-32 by 3/16 flathead screw.
- (11) For narrow panel, install B-563235-2 bottom retainer, with lip toward outside using one No. 8-32 by 5/8 round head screw.
- (12) For wide panel, install B-563235-1 bottom retainer, with lip toward outside using one No. 8-32 by 5/8 round head screw.

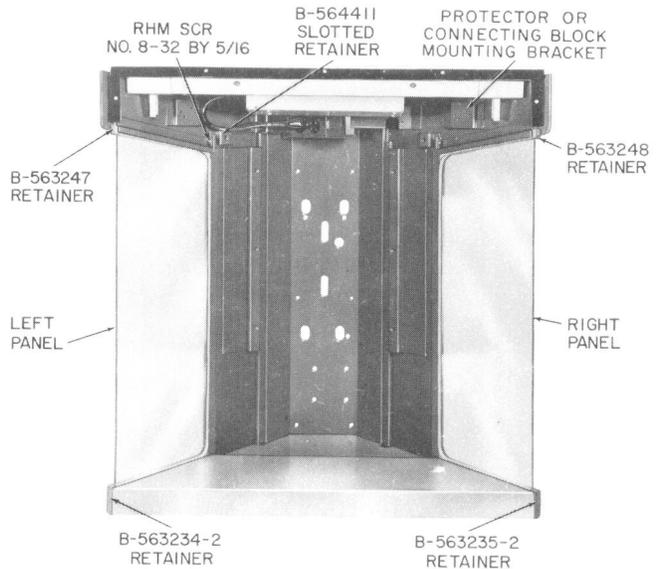


Fig. 7—KS-19426, L1 Housing Showing Installation of Panels



When two housings are mounted side-by-side in multiple installations, and glass panels are used, a filler multiplying strip (List 24 or List 25) is used in place of one of the panels. Do not use wide panels on drive-up mountings.

2.10 List 34 Top Assembly

- (a) If a 235- or 1235-type coin collector or a 2A/2C-type coin telephone set is used, install KS-19426, List 34 top assembly on the coin telephone set using two screws furnished with top assembly.
- (b) Install the coin collector or coin telephone set with top assembly attached, at this point. Always use security studs with KS-19426 mounting.

2.11 List 7 Installation Kit: If 1A/1C-type coin telephone set is used, install KS-19426, List 7 installation kit (Fig. 8) as outlined in the following:

- (1) Ensure that studs and insert in backboard are tight.
- (2) Install backboard in housing using six 1/4-20 by 5/8 round head screws.
- (3) Install B-564432 bracket on bottom of housing using two No. 8-32 by 1/4 round head screws.
- (4) Install B-563229 bracket on the top of backboard using two No. 8-32 by 1/4 flathead screws.
- (5) Remove protective paper from edges only of B-563227 left shroud assembly. Install shroud assembly in the housing using 1/4-20 by 1/2 round head screw at top.
- (6) Secure left shroud assembly to B-564432 bracket, installed in (3) using one No. 8-32 by 1/4 round head screw.
- (7) Remove protective paper from edges only of B-563228 right shroud assembly. Install shroud assembly in the housing using one 1/4-20 by 1/2 round head screw at top.

- (8) Secure right shroud assembly to B-564432 bracket, installed in step (3) using one No. 8-32 by 1/4 round head screw.
- (9) Install 1A/1C-type coin telephone set. Always use security studs with KS-19426 mounting.
- (10) Install B-564435 strip assembly above coin telephone set using two No. 8-32 by 1/4 tamper proof screws and KS-19192. List 1 wrench.

2.12 List 8 Installation Kit: If a 200-type coin collector is used, install KS-19426, List 8 installation kit (Fig. 9) as follows:

- (1) Ensure that studs and insert in adapter backboard are tight.
- (2) Place B-563284 back shelf in bottom rear of housing. Secure by inserting two No. 8-32 by 1/4 round head machine screws from the underside of the housing. Do not tighten.
- (3) Install backboard in housing using six 1/4-20 by 5/8 round head screws.
- (4) Install B-563229 bracket on top of backboard using two No. 8-32 by 1/4 flathead screws. Do not tighten.
- (5) Remove protective paper from edges only of B-563289 left shroud assembly. Insert bottom of shroud into slots of back shelf, installed in (2) and secure shroud to housing using one 1/4-20 by 1/2 round head screw at top. Do not tighten.
- (6) Remove protective paper from edges only of B-563290 right shroud assembly. Insert bottom of shroud into slots of back shelf installed in (2) and secure shroud to housing using one 1/4-20 by 1/2 round head screw at top. Do not tighten.
- (7) Align backshelf, shrouds, and bracket. Tighten all screws.
- (8) Install 200-type coin collector. Always use security studs with KS-19426 mounting.
- (9) Install appropriate subscriber set on top of adapter backboard and on B-563229 bracket using four No. 8-32 by 1/4 round head screws.

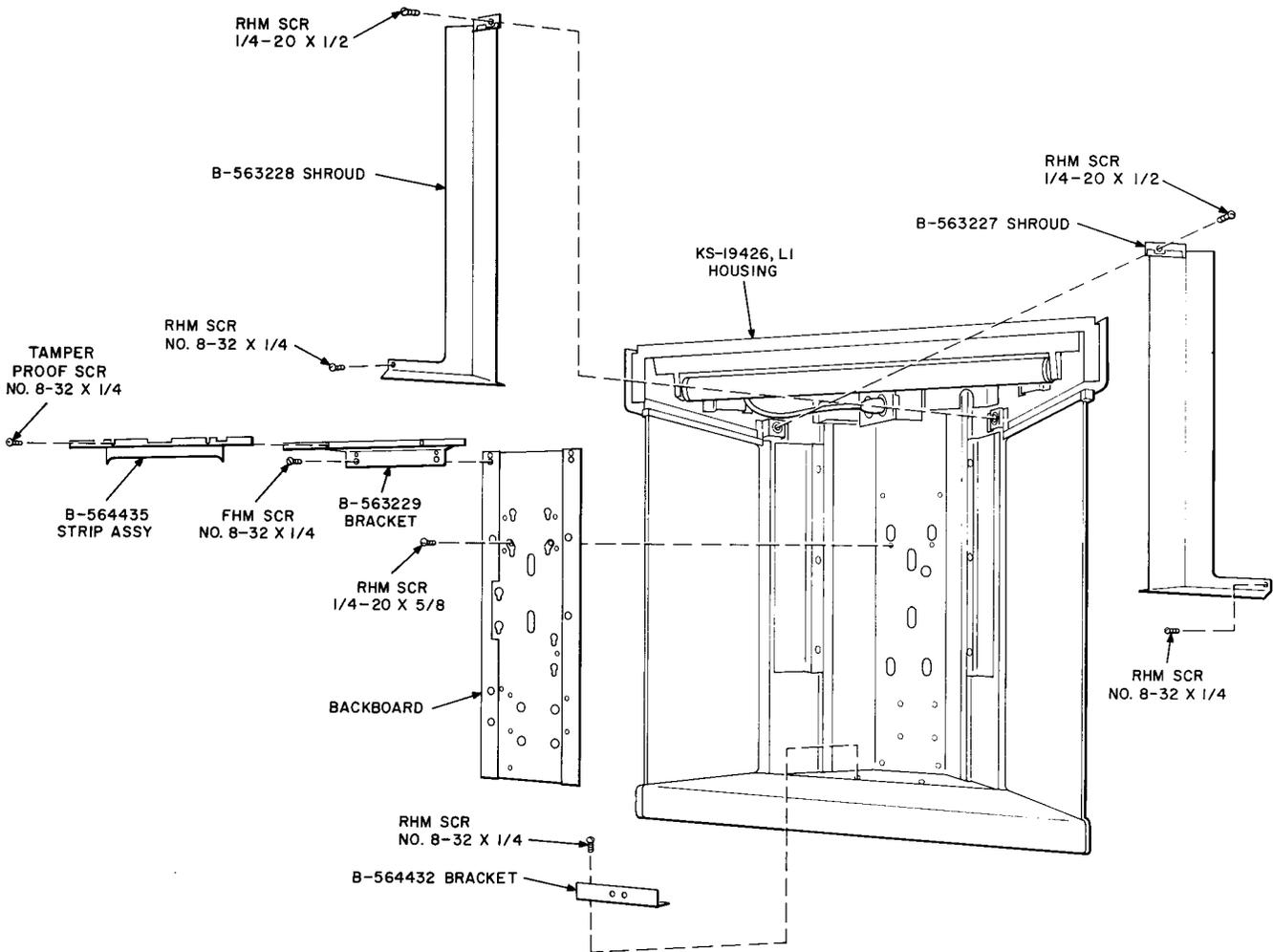


Fig. 8—KS-19426, L1 Installation Kit

Note: Do not attach plastic subscriber set cover.

2.13 List 18 Cardholder: If a List 18 cardholder is required for the 200-type coin collector install as follows (Fig. 9):

(10) Install B-564418 subscriber set cover assembly on B-563229 bracket using two No. 8-32 by 1/4 tamper proof screws and KS-19192, List 1 wrench.

(1) Loosen two No. 8-32 by 1/4 round head screws located on bottom of subscriber set cover assembly.

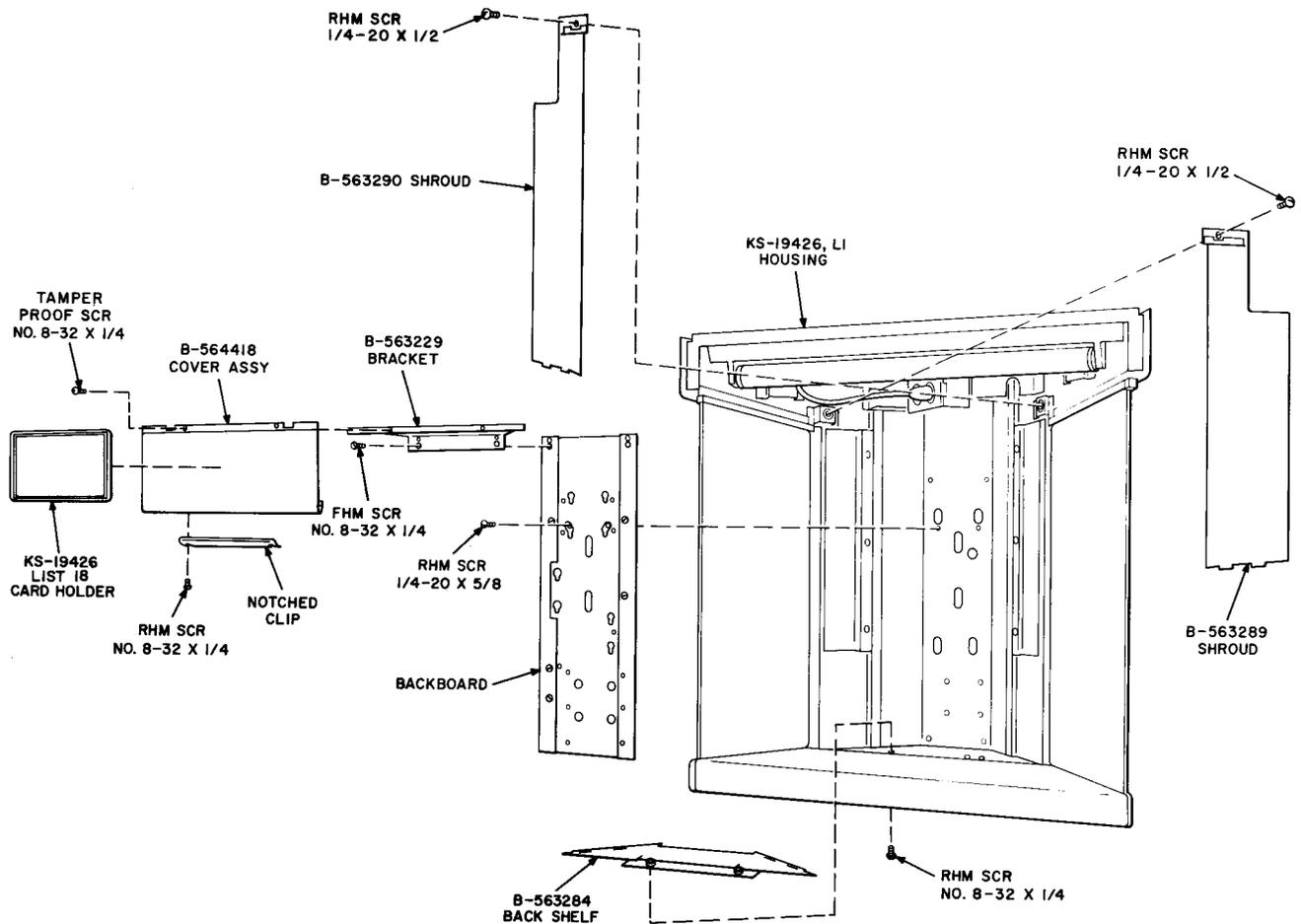


Fig. 9—KS-19426, L8 Installation Kit

- (2) Insert appropriate card into cardholder frame.
- (3) Slide notched clip of cardholder under the two loose screws.
- (4) Insert tab at top of cardholder into notch of subscriber set cover.
- (5) Tighten the two screws.

2.14 Light Shield: Insert fluorescent lamp in light fixture and install light shield as follows:

- (1) Slide light shield over the panel retaining channels and verify that shield is seated properly against gasket. Ensure that back edge of shield is engaged in KS-19426, List 34 top

assembly or B-564418 subset cover assembly (whichever is applicable).

- (2) Install shield retainer bar across top of housing using four No. 10-24 by 1/2 tamper proof screws, and KS-1912, List 1 wrench.

2.15 List 32 and 33 Base Covers: Install KS-19426, List 32 and List 33 base covers or two KS-19426, List 33 base covers as follows (Fig. 4):

Note: KS-19426, List 33 has a cutout for post. If two posts are back-to-back, two List 33 covers are used.

- (1) Slide List 32 cover over base from rear as shown, being careful to get bottom angles under base between base standoffs.

(2) Slide List 33 cover over base from front, being careful to get bottom angles under base. Apply KS-19094 antiseize compound to the threads of two 1/4-20 by 1-1/4 hex head self-tapping screws. Secure cover to post using these screws.

(3) Apply KS-19094 antiseize compound to the threads of two No. 8-32 by 3/8 flathead self-tapping screws. Secure the interlocking portion of the two covers together using these screws.

2.16 Post Enclosures

(a) Install B-563020-2 or B-564416-2 enclosure assembly (Fig. 4) on the lower portion of the post by engaging the clips of the enclosure with the corresponding brackets on the post and sliding down flush against the base cover.

Note: The B-563020-2 enclosure assembly is used on a walk-up mounting and the B-564416-2 enclosure assembly is used on a drive-up mounting.

(b) Install B-564438 shroud and door assembly on the upper portion of the post by engaging the bottom of the assembly with the top of the previously installed enclosure assembly and using two tamper proof screws and KS-19192, List 1 wrench.

2.17 List 13 or 14 Directory Holder: Install KS-19426, List 13 or List 14 directory holder, if required, as outlined below.

Note: KS-19426, List 13 is used for outdoor service; KS-19426, List 14 is used for indoor service.

(1) Install slide mechanism under shelf of housing using six No. 8-32 by 1/2 round head screws.

(2) Fasten the book holder to the slide mechanism by inserting the hinge pin through the hinge arm and securing with No. 10-32 tamper proof screw using KS-19192, List 1 wrench.

KS-19426, LIST 41 MAST AND KS-20031, LIST 1 SIGN (Fig. 10)



The KS-20031, sign can be installed on top of KS-19426, List 39 or 40 mast. If neither of these masts is used and a sign is desired, it will be necessary to install a KS-19426, List 41 mast. The List 41 mast cannot be installed on mountings without canopies.

2.18 List 41 Mast: Install KS-19426, List 41 mast on canopy as follows:

(1) Install adapter with neoprene gasket (both furnished with mast) on top of canopy using two 3/8-16 by 7 hex socket-head cap screws. Leave hole at apex open.

(2) Secure List 41 mast to adapter using two 3/8-16 by 1-1/2 hex head bolts. Secure mast at apex by inserting 3/8-16 by 8-1/2 hex head bolt through mast, adapter, canopy, and into post.

2.19 KS-20031, List 1 Sign

Note: The KS-20031 sign may be mounted with a flat side of the lens facing forward or it may be rotated 180 degrees to provide a corner in the forward position. Change mounting positions by removing four cap nuts from the bottom, rotating the lens 180 degrees, and securing it again with the cap nuts.

(1) Mount the sign on the mast and secure it with four 1/4-20 by 1/2 FH screws.

(2) KS-20031 sign lamps shall be wired to junction box below housing with No. 14 AWG wire. Connections should conform to connections of the housing fluorescent lamp.

POST MOUNTINGS EMBEDDED IN CONCRETE

Note 1: The concrete base for walk-up mountings shall be 24-inches square, 36-inches deep, and flush with ground level.

Note 2: Where a curb does not exist, the concrete base for drive-up mountings shall be 48-inches long, 24-inches wide, and 36-inches deep with 6 inches extending above road level. The 24-inch dimension shall parallel the road.

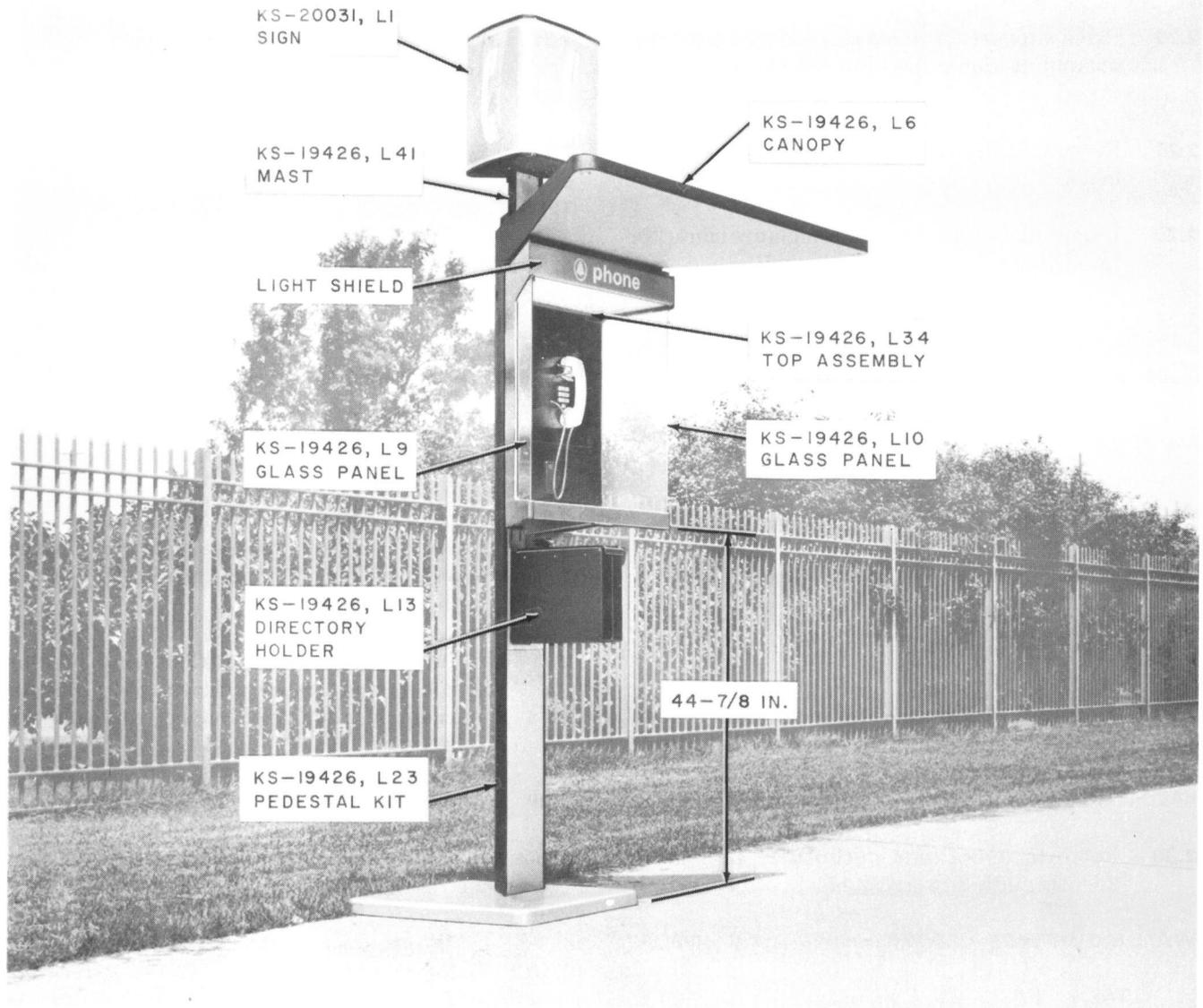


Fig. 10—KS-19426 Mounting For Walk-Up Outdoor Service With List 41 Mast and KS-20031 Illuminated Sign

Note 3: Where a curb does exist, the concrete base for drive-up mountings shall be 48-inches long, 24-inches wide, and 24-inches deep and flush with top of curb. The 24-inch dimension shall parallel the road.

2.20 Embed KS-19426, List 2 post(s), for walk-up mountings, or KS-19426, List 3 post(s), for drive-up mountings, in the center of the base to concur with the dimensions shown on Fig. 5.

2.21 Determine that the post(s) is perfectly plumb to ensure proper operation of the coin telephone.

2.22 Perform operations outlined in 2.02 (e), (f), (h) through 2.14 and 2.16 through 2.19.

WALL MOUNTINGS, USING KS-19426, LIST 4 SUPPORT

Note: KS-19426, List 4 support may be installed in a corner (View B, Fig. 11), at

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right angles (View C, Fig. 11), or around a corner (View D, Fig. 11).

- 2.23 Place support on the wall 45-1/8 inches from ground or floor. See Fig. 12 for installation requirements.
- 2.24 Remove sliding backboard to expose mounting holes.
- 2.25 Using the support as a template, mark for the drilling of eight holes in wall.
- 2.26 Drill anchor holes in masonry or lead holes in wood and use fasteners as indicated in Table A to fasten support to surface.

 **Eye protection shall be worn while drilling.**

- 2.27 Install sliding backboard in support.
- 2.28 When installing two mountings adjacent to each other (View C, Fig. 11), secure two supports together using six 1/4-20 by 1/2 hex head bolts.
- 2.29 To install a mounting around a corner (View D, Fig. 11), secure the center support to the adjacent supports using twelve 1/4-20 by 1/2 hex head bolts.
- 2.30 Perform operations outlined in 2.03, 2.04, 2.08 through 2.14 and 2.17.

WALL MOUNTINGS, USING KS-19426, LIST 5 SUPPORT

Note: KS-19426, List 5 support is used to install a wall mounting on a flat surface (View A, Fig. 11).

- 2.31 Place support on the wall 45-1/8 inches from ground or floor. See Fig. 12 for installation requirements.
- 2.32 Remove sliding backboard to expose mounting holes.
- 2.33 Using the support as a template, mark for the drilling of eight holes in wall.
- 2.34 Drill anchor holes in masonry or lead holes in wood and use fasteners indicated in Table A to fasten support to surface.

 **Eye protection shall be worn while drilling.**

- 2.35 Install sliding backboard in support.
- 2.36 Perform operations outlined in 2.03 (a), 2.03 (b), 2.03 (d), 2.04, 2.08 through 2.14 and 2.17.

TELEPHONE WIRING

Note 1: Wiring for a post mounting may enter from the ground or from a mast (Fig. 5).

Note 2: Wiring for a wall mounting may enter from the bottom of the housing, top of the housing, or from the back of the housing through the wall (Fig. 12).

- 2.37 If station protection is required, install 123A1A protector on the bracket provided in the rear of housing (Fig. 7) and terminate station wiring on this protector.
- 2.38 If the requirements for 123A1A protector cannot be met, install a fused-type protector at a convenient location and connect to telephone ground rod.
- 2.39 If a fused-type protector is installed or if the service order does not specify a station protector, install a 42A-type connecting block on the bracket in the housing, if required.



When station wiring is installed for single mountings, consideration should be given for future requirements (back-to-back, or clustered mountings). The 44A-type connecting block may be substituted to terminate a 6-pair cable.

- 2.40 Ground for the station protector is usually provided by the power system ground. See Division 508, section entitled: Electric Grounding and Wiring Requirements, Booths—Metal.

ELECTRIC WIRING

- 2.41 Install 110-volt wiring to conform with current requirements of the National Electrical Code, Governmental Agencies, and Company Standards.

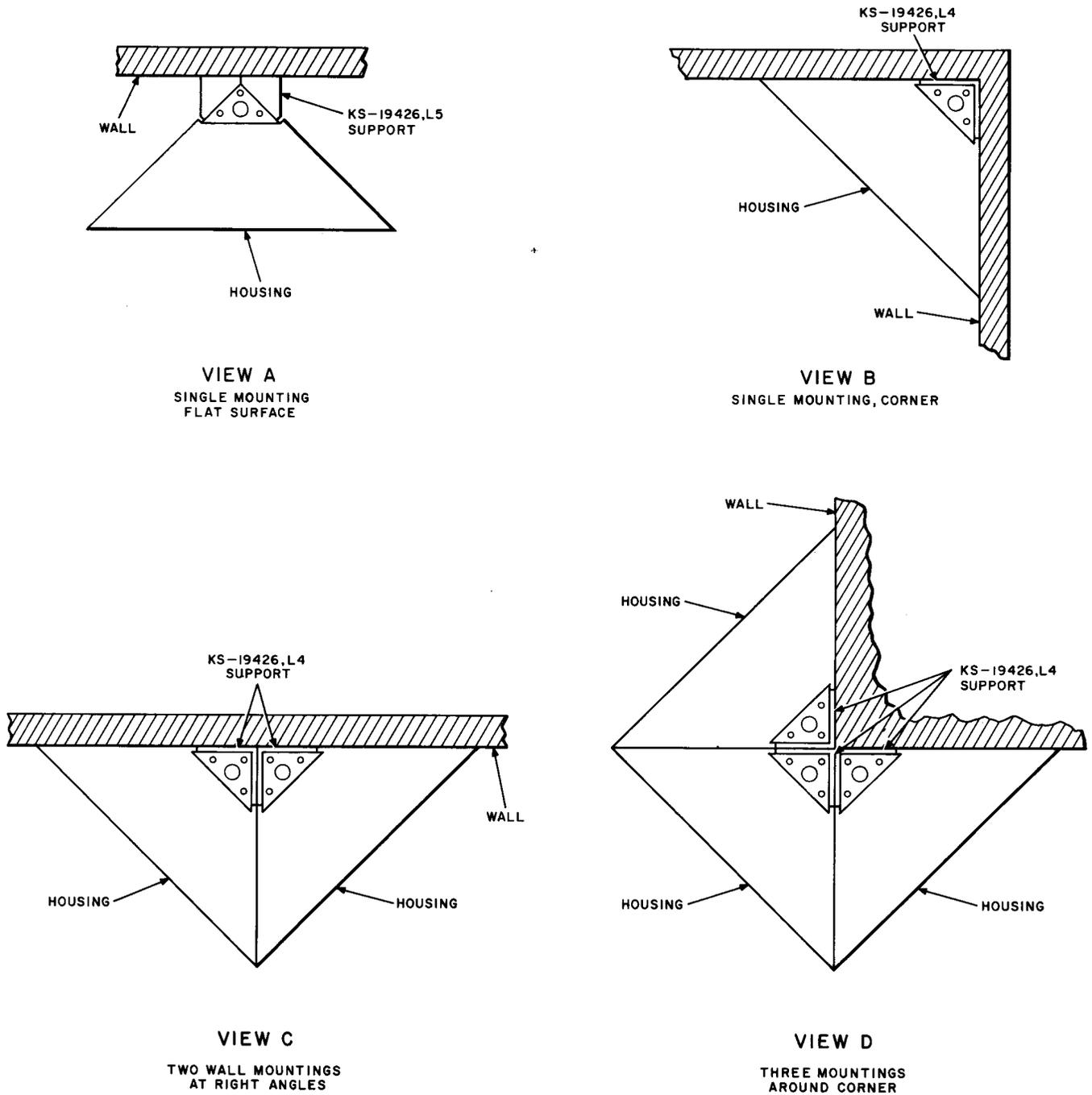


Fig. 11—Various Arrangements for Wall Mountings

2.42 Observe the following safety rules.

THINK → *Under no circumstances shall any makeshift or temporary electric connection 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. Verify that the circuit is dead using an

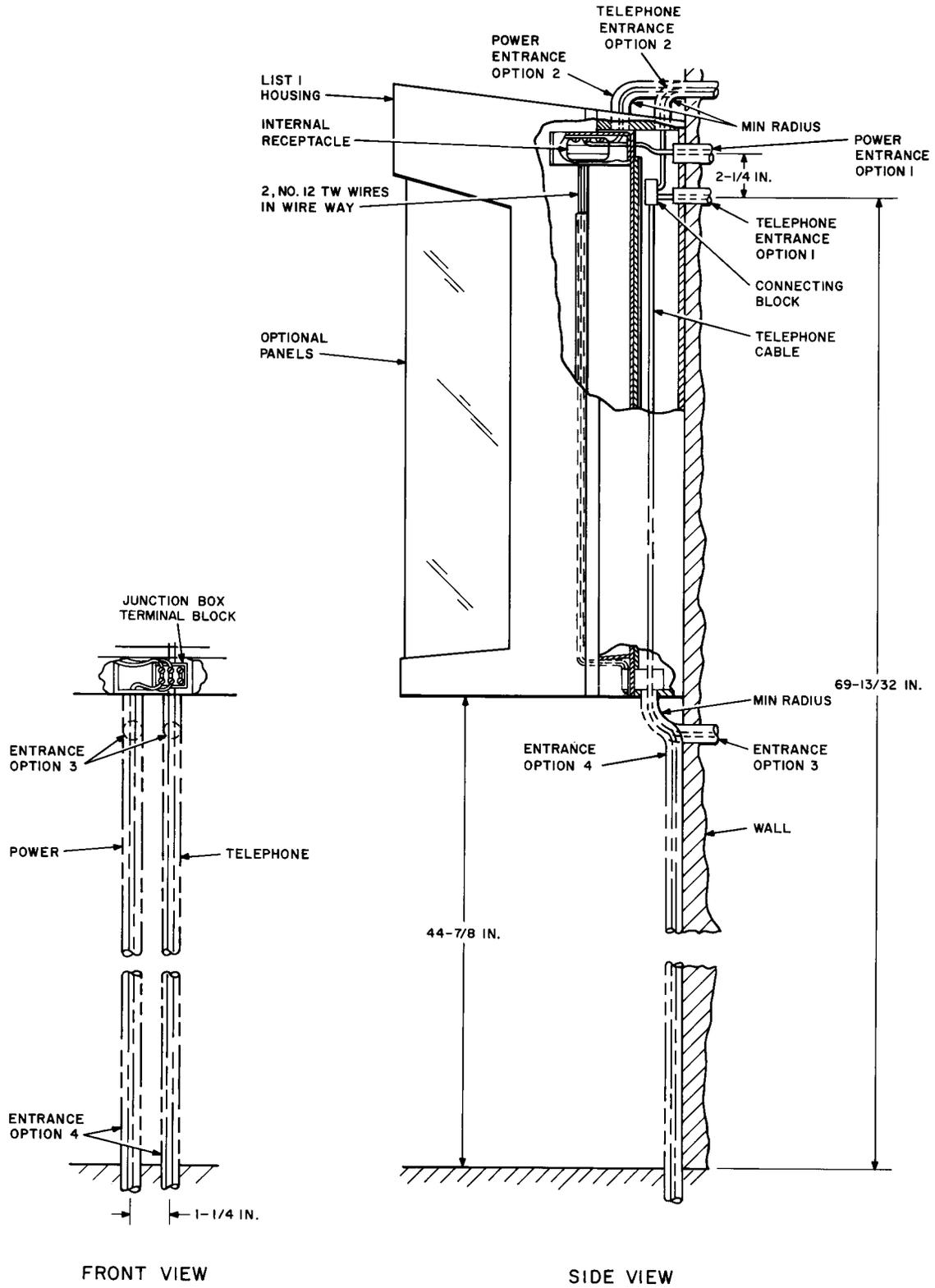


Fig. 12—Installation Requirements for Wall Mountings

TABLE A
FASTENERS FOR WALL MOUNTINGS

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

electric wire tester or an approved device. Wear eye protection when handling fluorescent lamps.

2.43 Use the 3-wire arrangement between the power service equipment and the housing. It is recommended that this 3-wire arrangement to the service equipment or to a junction box be used at all installations.

2.44 Use Fig. 13 as a guide for internal wiring.

2.45 When a service entrance box is used in post mounted installations, interconnect the service entrance box and the junction box terminal block under the housing with B-564428 cable assembly.

THINK *Install cable with long end fitting at top.*

2.46 Interconnect power receptacles in back-to-back or cluster mountings using No. 14, 3-wire armored cable and fittings. Feed cable **through** top side hole of post and housings or supports.

2.47 A KS-19261, List 3 light control is available to switch the light on at darkness and off at daylight; install in accordance with Division 508, section entitled: KS-19261 Light Controls, Identification, Installation, and Maintenance.

3. MAINTENANCE

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

3.02 The local telephone company shall establish safety standards for all mountings.

3.03 Inspect the approach to the mounting and ensure that it is free of all hazards.

3.04 Clean the mounting in accordance with Division 508, section entitled: Booth and Shelf Cleaning.

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

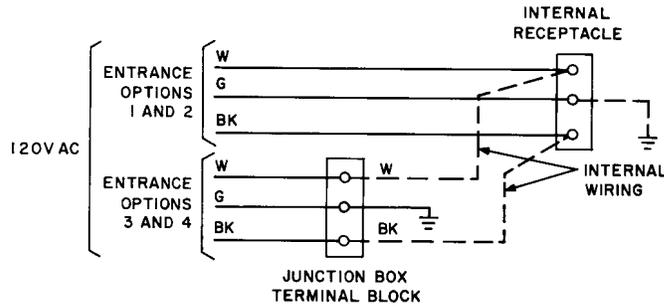
3.05 Replace light shields and lamps which do not meet company standards. Replace broken or damaged KS-20031, List 2 lens assembly as follows:

(1) Remove four cap nuts from bottom of assembly and remove old lens

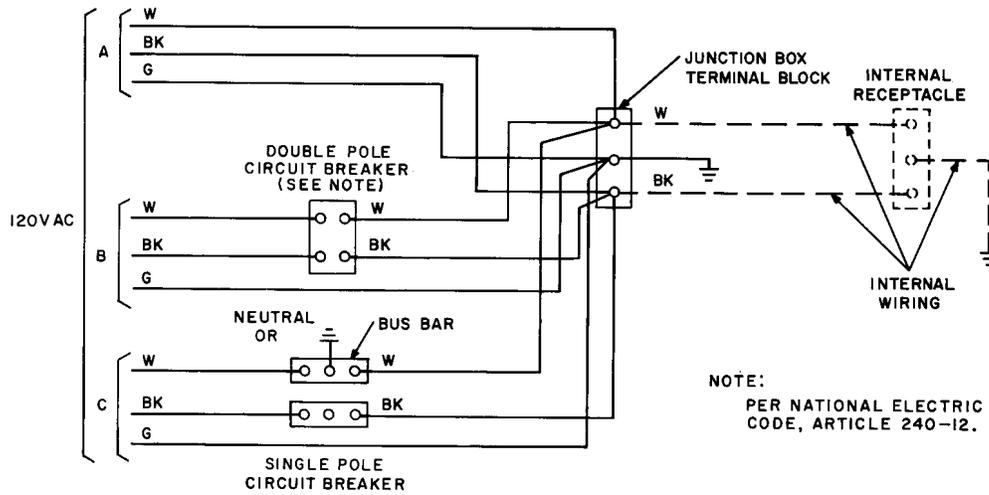
(2) Install new lens using reverse procedure.

3.06 Replace broken or damaged side panels. See 2.09.

WALL MOUNTING



WALK-UP, DRIVE-UP MOUNTING



- STANDARD WIRING
- A-NO CIRCUIT BREAKER
- OPTIONAL WIRING
- B-DOUBLE POLE CIRCUIT BREAKER. (HEINEMAN ELECTRIC CO. NO. 2912, 120 VOLT AC, 10 AMP, CURVE 3)
- C-SINGLE POLE CIRCUIT BREAKER. (HEINEMAN ELECTRIC CO. NO. 0912, 120 VOLT AC, 10 AMP, CURVE 3)

Fig. 13—Wiring Diagram

3.07 In pedestal or post mountings, replace post covers or pedestal covers which are damaged. See 2.15 and 2.16.

3.10 Replace telephone directories and directory holders which show signs of excessive wear or damage. See 2.17.

3.08 Ensure that mounting bolts for canopy and mast, if present, are tight.

3.09 In pedestal mountings, ensure that the mounting bolts in the base are tight.