

KS-22642 SILENCER
PUBLIC TELEPHONE ENCLOSURE
IDENTIFICATION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.01 This section provides information on the KS-22642 silencer public telephone enclosure.

1.02 Whenever this section is reissued, the reason(s) for reissue will be listed in this paragraph.

2. IDENTIFICATION

2.01 The silencer is an acoustic enclosure intended for use at noisy indoor or outdoor locations.

2.02 Three versions of the silencer are available as follows:

(a) **KS-22642, List 1 (Fig. 1 and 2):** The KS-22642, List 1 silencer has a nonilluminated roof.

(b) **KS-22642, List 2 (Fig. 3 and 4):** The KS-22642, List 2 silencer has an illuminated ceiling and signs with the Bell System emblem and the word Phone.

(c) **KS-22642, List 2C (Fig. 5):** The KS-22642, List 2C silencer has an illuminated ceiling and signs with the word Charge-a-Call.

2.03 The housing is available in Bell System blue or bronze and the signs are available with lettering to match (Table A).

2.04 The approximate dimensions of the housing are as follows:

- Height — 50-5/8 inches for a nonilluminated housing or 55-1/2 inches for an illuminated housing
- Inside Diameter — 22-3/4 inches
- Outside Diameter — 26 inches
- Front Opening — 20 inches.

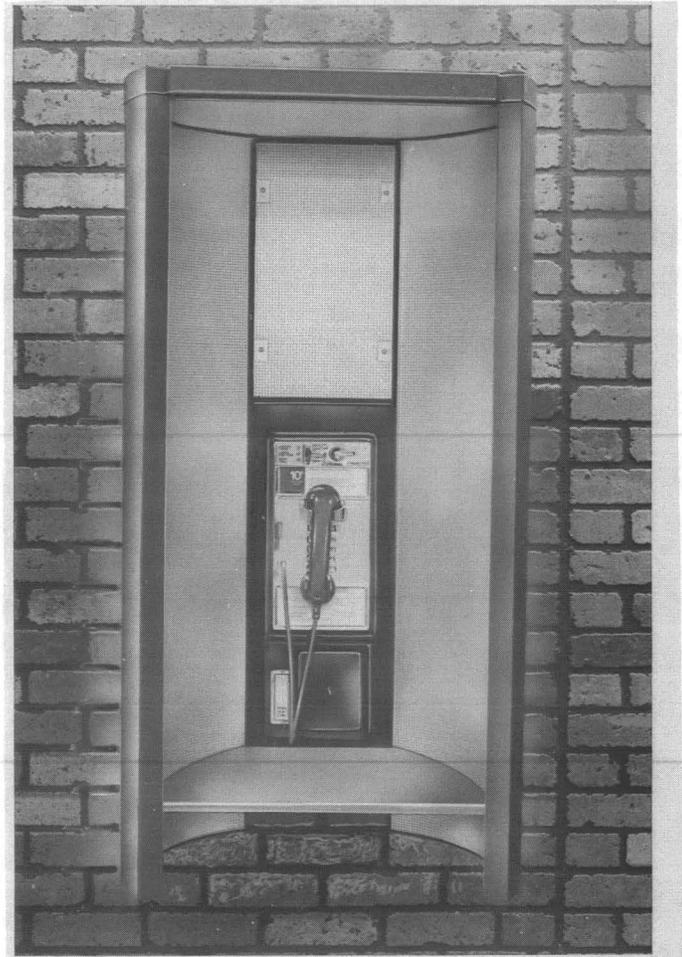


Fig. 1 — KS-22642, List 1 Silencer — Wall Mounted

2.05 The housing can be mounted on the SENTRY* public telephone enclosure KS-20842, List 45 wall mounting, KS-20842, List 143 single post, or KS-20842, List 107 cluster post. Wall mountings and posts must be ordered separately.

*Trademark of Western Electric

NOTICE

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Bell System except under written agreement

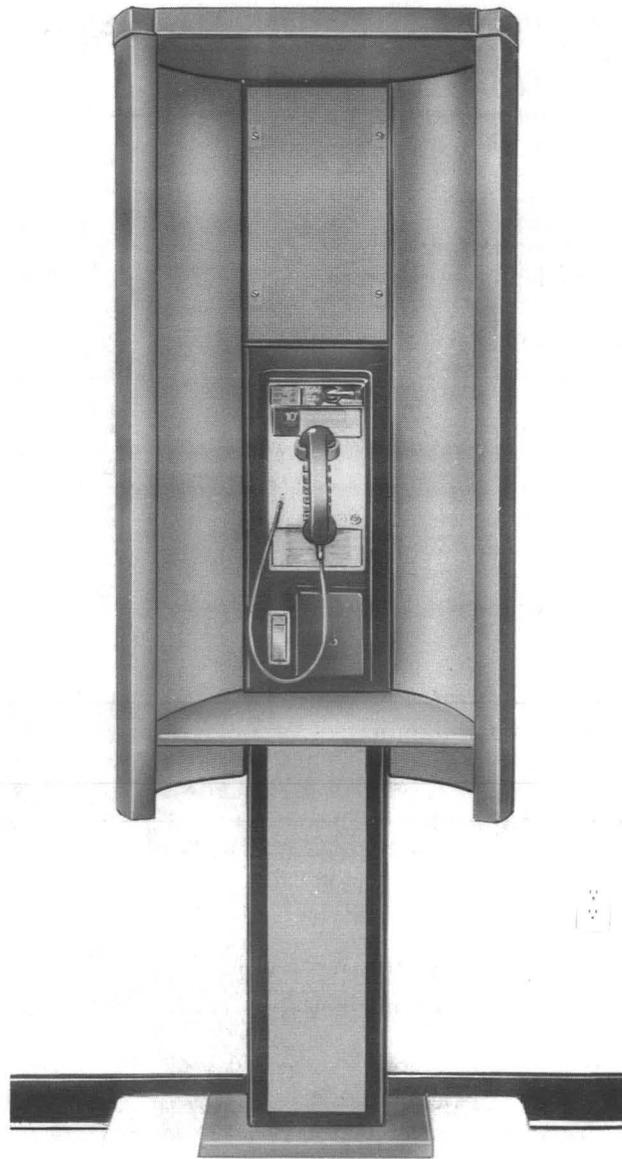


Fig. 2—KS-22642, List 1 Silencer—Post Mounted

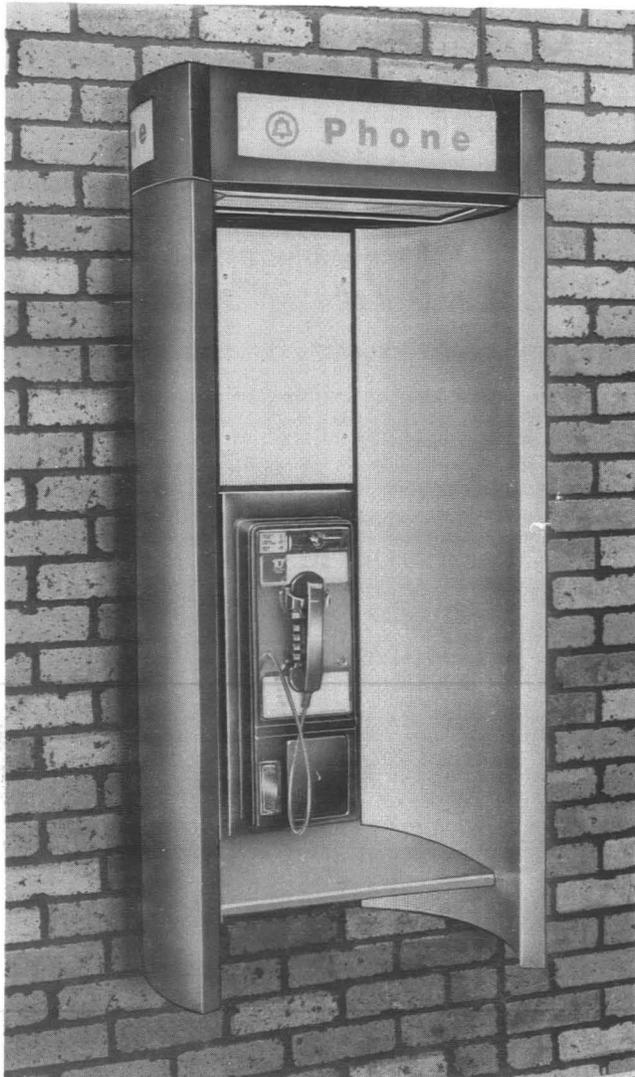


Fig. 3—KS-22642, List 1 Silencer—Wall Mounted

- 2.06** The cylindrical-shape housing assembly consists of two half-round, acoustic panel subassemblies containing sound absorbing fiberglass material which is sandwiched between the curved outer steel panel and the inner aluminum perforated panel.
- 2.07** The silencer will accept a 1- or 3-type coin telephone set or a 10A coinless telephone set.
- 2.08** A sloped stainless steel writing shelf spans the enclosure below the telephone set.

2.09 The writing shelf is designed to accept a KS-20030, List 11, 12, or 13 or a KS-21435, List 2 directory hanger.

3. INSTALLATION

3.01 Location of public telephone enclosures should be as follows:

- Readily accessible, well lighted area, 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 locations with adequate space to permit access for maintenance
- In areas free of potential hazards (such as explosives)
- Spaced with a minimum clearance of 6 inches from property lines
- Oriented with front of enclosure facing away from noise sources such as streets, railroads, etc.

3.02 Ensure that all requirements set forth by local regulations are met. 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.

3.03 Install KS-20842, List 45 wall mounting, KS-20842, List 143 single post, or KS-20842, List 107 cluster posts as directed in Section 508-452-100.

3.04 Install housing on a wall mounting or post as follows:

- (1) Using a KS-19192, List 1 wrench, remove four No. 10-32 by 1/2 security screws and remove the perforated aluminum access panel from above the telephone position (Fig. 6).
- (2) Remove two 5/16-18 hex nuts and two 5/16-inch flat washers from rear of housing (Fig. 7).
- (3) Remove the center front hex head screw and flat washer from top of mounting or post. In-

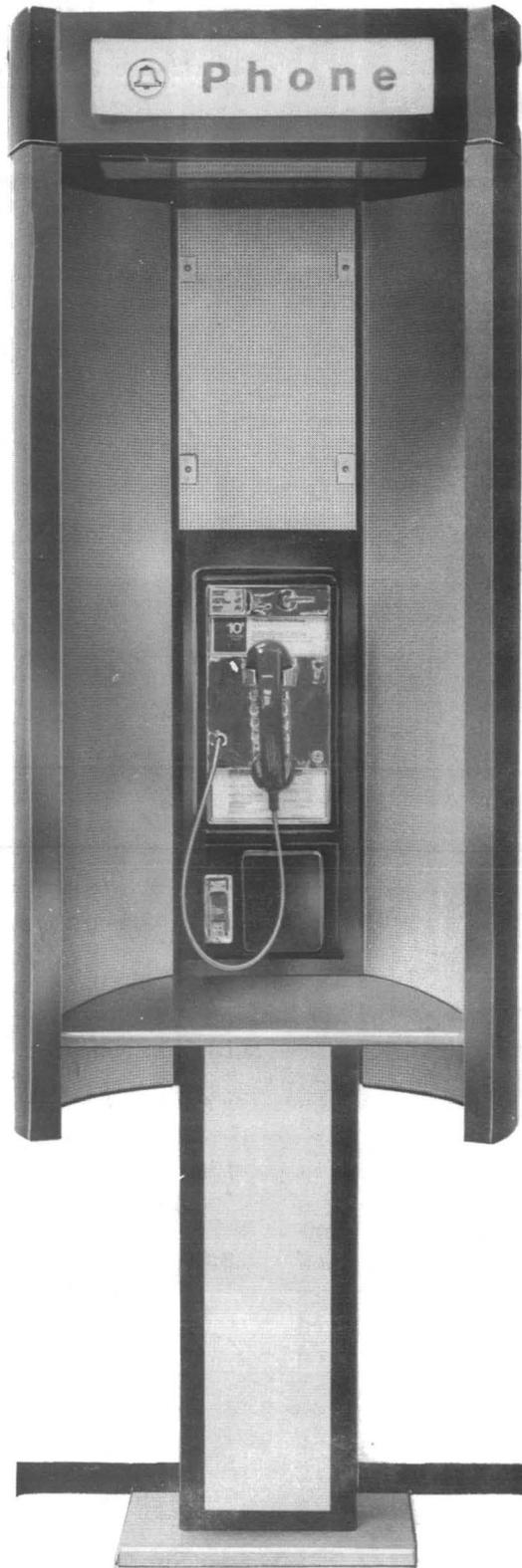


Fig. 4—KS-22642, List 2 Silencer—Post Mounted

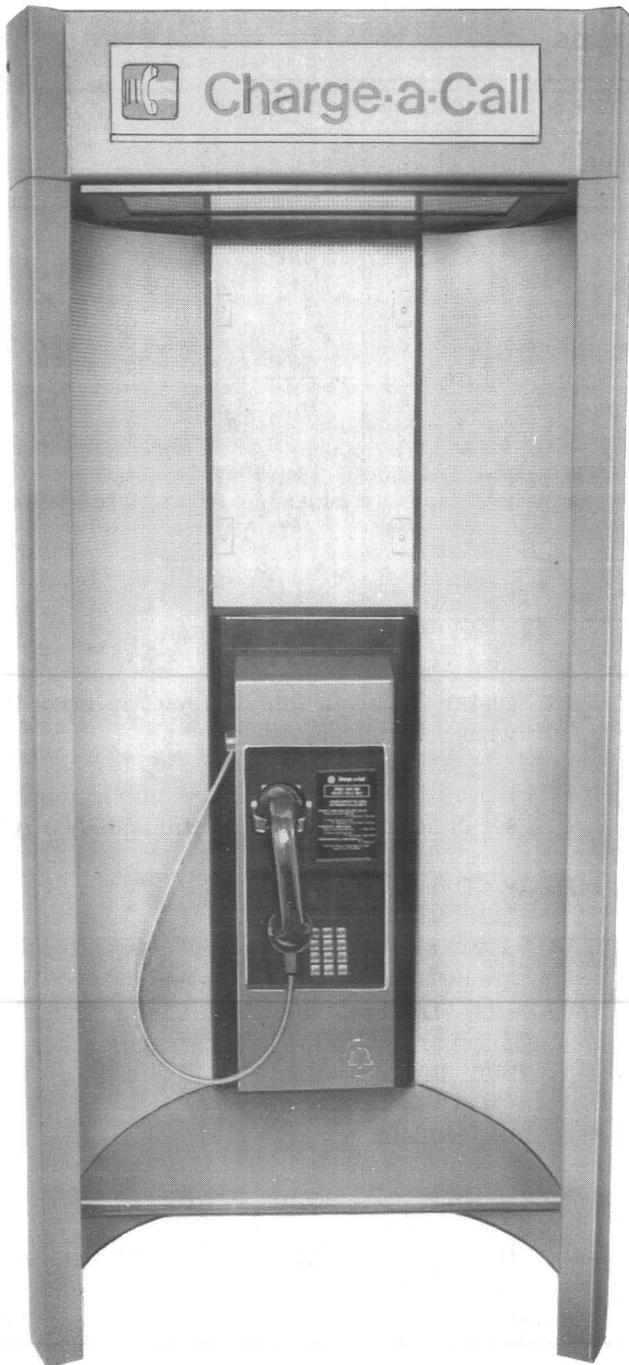


Fig. 5—KS-22642, List 2 Silencer—Charge-a-Call Signing

vert the screw and install it back in the same hole from the opposite side for use as a locating stud.

- (4) Remove the four remaining hex head screws and flat washers from top of mounting or post.
- (5) If a KS-20842, List 45 wall mounting is used, remove two flathead security screws from bottom access cover of the mounting using a KS-19192, List 1 wrench. Remove the cover.
- (6) Utilizing the locating stud provided in Step (3), position the housing on the mounting or post.
- (7) Secure top portion of housing to mounting or post using the four 3/8-16 by 1 hex head screws and flat washers removed in Step (4).
- (8) Secure the lower portion of housing to mounting or post using the two 5/16-18 hex nuts and 5/16-inch flat washers removed in Step (2).
- (9) Install the perforated aluminum panel in rear housing using the four No. 10-32 by 5/8 security screws removed in Step (1). Use KS-19192, List 1 wrench.

3.05 If required, install a KS-21435, List 2 directory facility under the shelf. Use four No. 10-32 by 3/8 roundhead security screws and four No. 10 lockwashers furnished with the facility.

3.06 A KS-20030, List 11, 12, or 13 directory hanger can be installed on a silencer. Refer to Section 508-710-102 for complete information.

WIRING AND GROUNDING

3.07 Ensure that the station protector in each enclosure is properly bonded to the frame. Refer to Section 508-100-100 for complete ground information. Refer to Fig. 8 for protection requirements.

3.08 Install electrical wiring to conform with current requirements of the National Electrical Code (NEC), Government Agencies, and company standards. Telephone wiring shall not be installed in a location where minimum separation from other wiring, as specified in Division 460, cannot be maintained.

Note: Under no circumstances shall any makeshift or temporary electrical connections

TABLE A
SIGN PANELS

PART NUMBER	WORDING	LETTERING	BACKGROUND	LOCATION
L-906446-1	Phone	Blue	White	Front
L-906446-2		Bronze		
L-906446-3	Charge-a-Call	Blue		
L-906446-4		Bronze		
L-906446-5	Phone	Blue		Sides
L-906446-6		Bronze		
L-906446-7	Charge-a-Call	Blue		
L-906446-8		Bronze		

be made on lighting equipment. Before making any repairs or replacements in electrical equipment, make sure the circuit is dead. Wear eye protection when handling fluorescent lamps.

3.09 Telephone and electrical wiring for the silencer can enter the enclosure from either top or bottom.

3.10 A KS-19426, List 17 service entrance box (Fig. 9) can be used in a KS-20842, List 107 or List 143 post.

3.11 Use a Heineman Electric Co., No. 0912 single-pole circuit breaker, 120-volt ac, 15 ampere, time-delay curve No. 3, catalog No. 91-106-1.

3.12 Incoming power must be provided locally to the service entrance box.

3.13 Install a 123-type protector (furnished locally) in the bottom of the mounting or post. If gas tubes are required, use 123E1A protector.

TELEPHONE SETS

3.14 Install 1A-, 1C-, or 1E-type coin telephone set in accordance with Section 506-410-400.

3.15 Install 1D-type coin telephone set in accordance with Top Oriented Practice (TOP) 506-410-202.

3.16 Install 3A2 coin telephone set in accordance with Section 506-410-403.

3.17 Install 10A or 10B coinless public telephone set in accordance with Section 506-500-100.

BOTTOM COVERS

3.18 After all components and associated items are installed, install the covers over the feet of the post(s), front of the post(s), and under wall mounting(s) as applicable using security screws and a KS-19192, List 1 wrench.

4. MAINTENANCE

LAMPS (List 2 or 2C Silencer Only)

4.01 Using a KS-19192, List 1 wrench, loosen two security fasteners (Fig. 10) and remove the retaining strip.

4.02 Pull the diffuser forward and out of frame (Fig. 11).

4.03 Use 15-inch long, 14-watt fluorescent lamps (G.E. No. F-14T12CW or equivalent).

SIGNS (List 2 or 2C Silencer Only)

4.04 Refer to Table A for available signs.

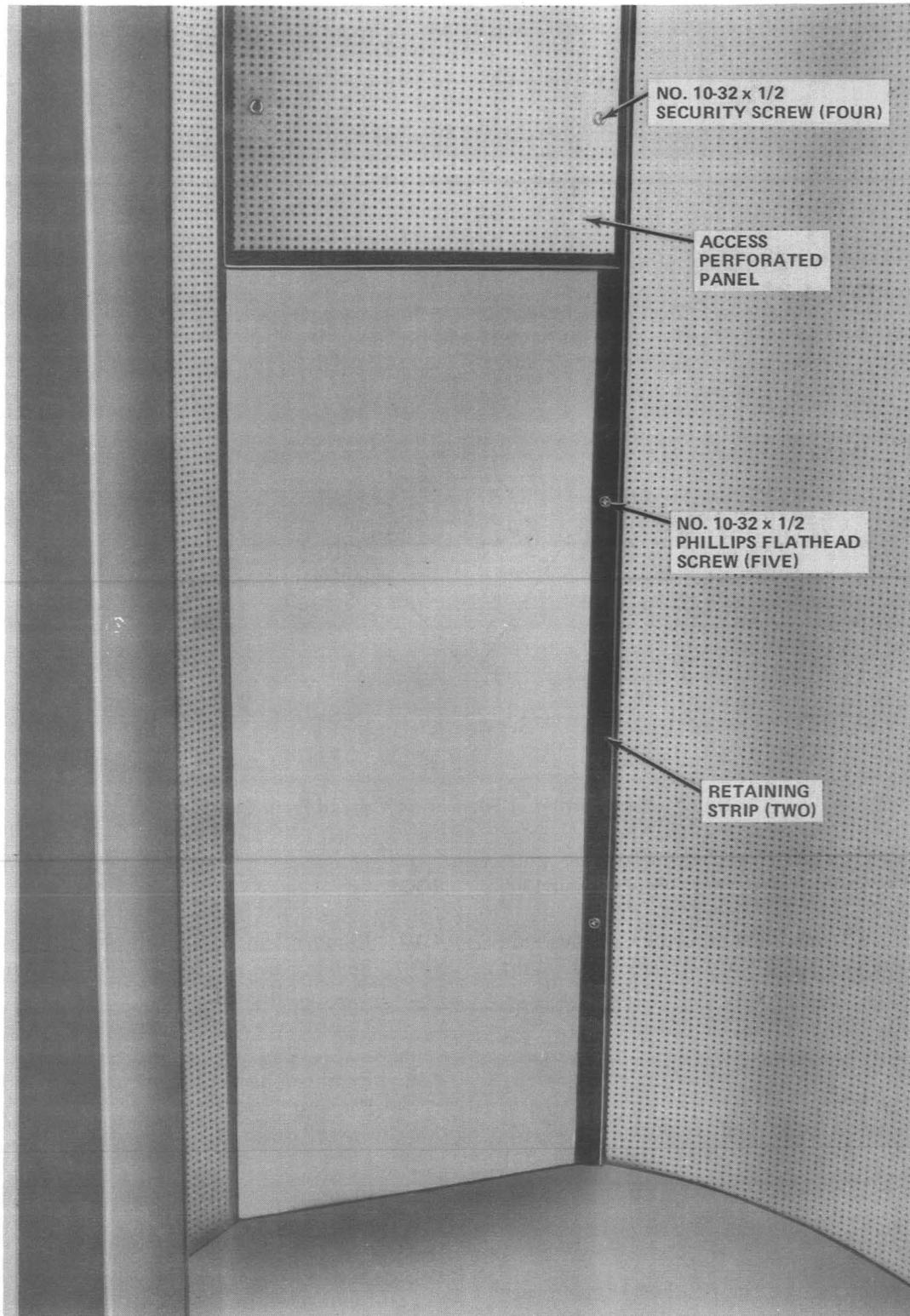


Fig. 6—Rear Portion of Silencer as Viewed From Front

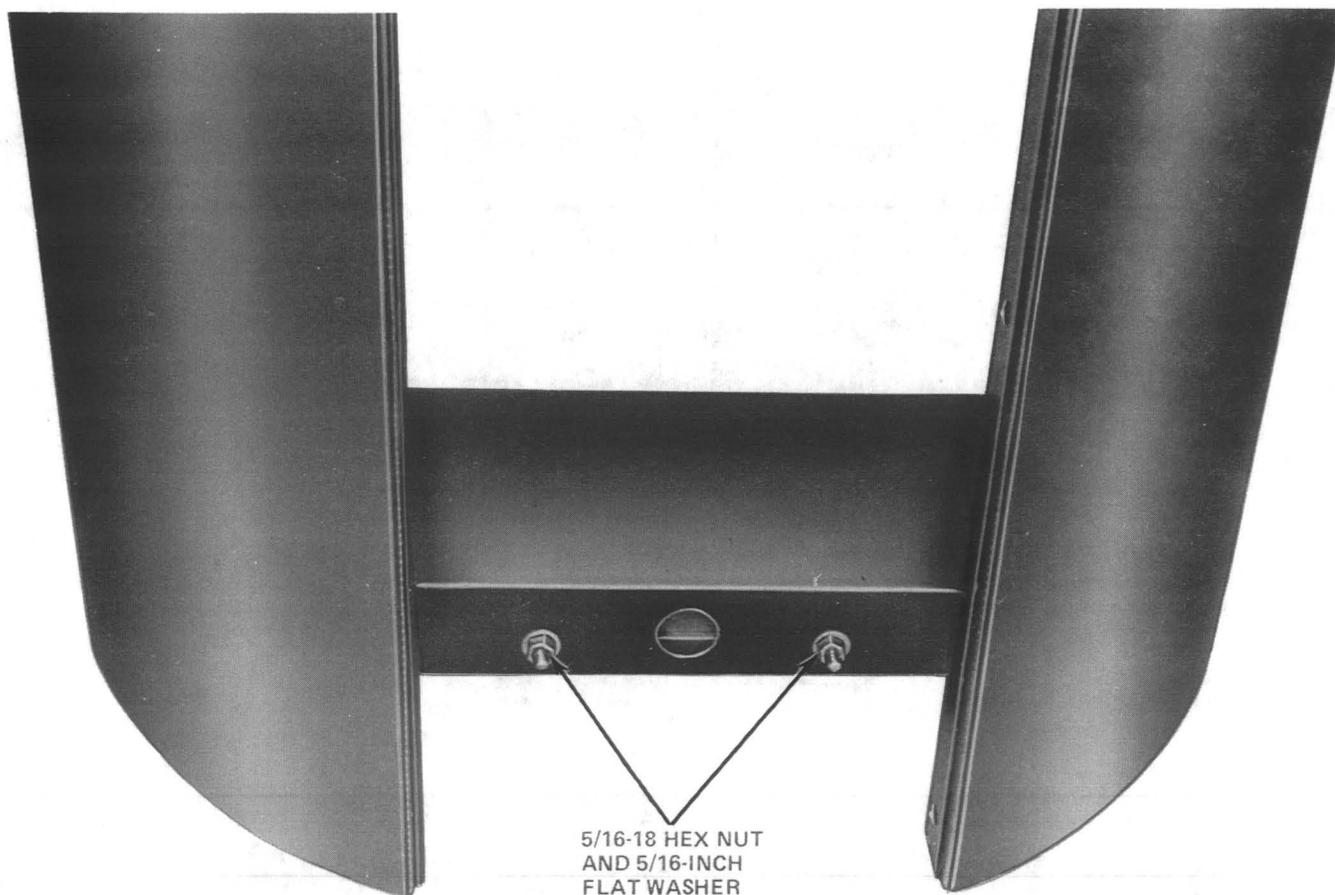


Fig. 7—Rear Portion of Silencer as Viewed From Rear

4.05 Repeat procedure in paragraphs 4.01 and 4.02.

4.06 To remove front sign or either of the side signs, remove eight No. 8-32 hex nuts, eight No. 8 lockwashers, and eight No. 8 flat washers. Install using reverse procedure.

WRITING SHELF

4.07 To remove writing shelf, remove four 1/4-20 by 1/2 hex head screws and four 1/4-inch flat washers. Replace using reverse procedure.

DIRECTORY

4.08 For maintenance on the KS-20030-type directory hanger, refer to Section 508-710-102.

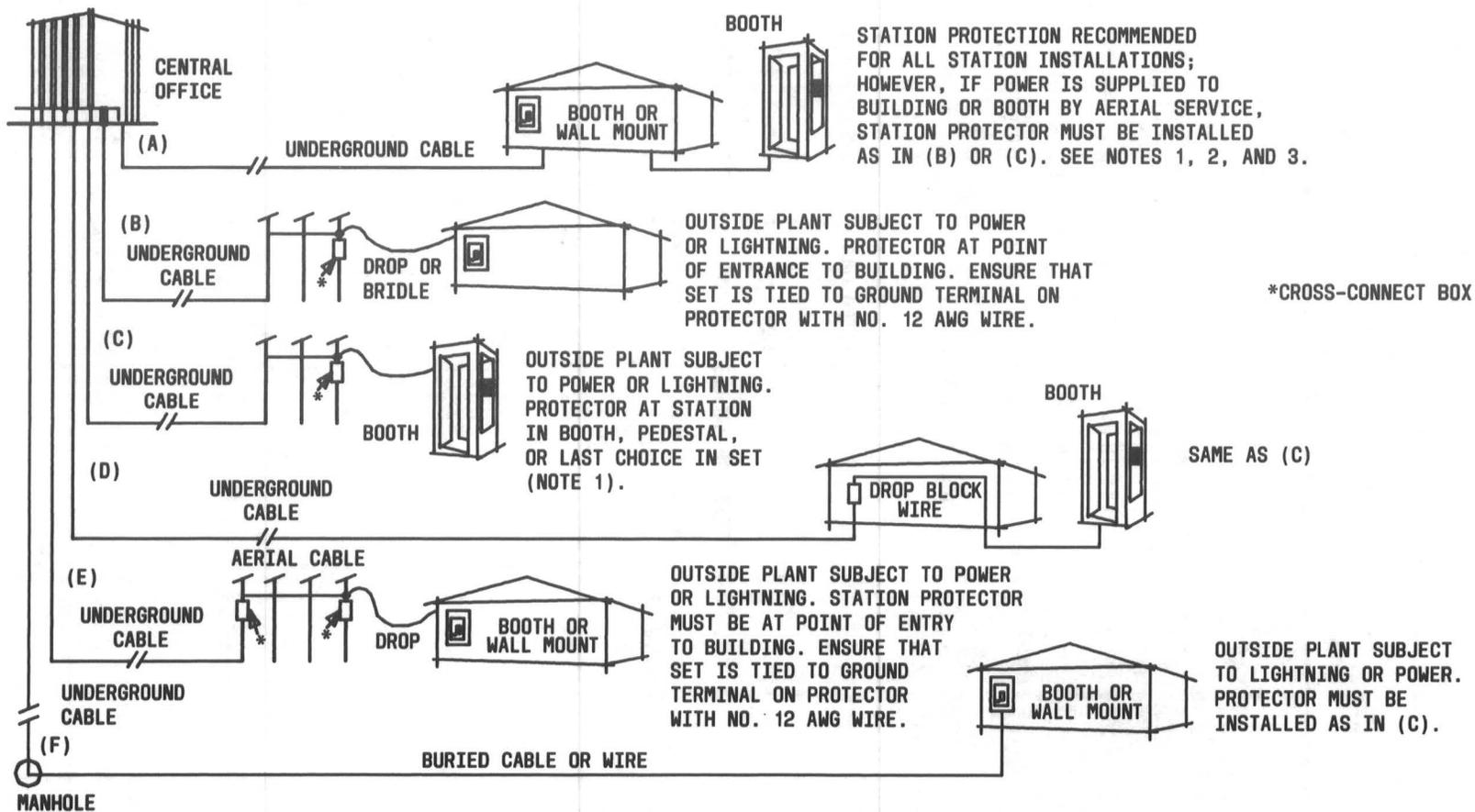
4.09 For maintenance on the KS-21435-type directory hanger, refer to Section 508-710-102.

ROOF

4.10 Remove the roof from the KS-22642, List 1 housing by removing eight 1/4-20 by 2 hex head bolts and lift off.

4.11 Remove the roof from the KS-22642, List 2 housing as follows:

- (1) Remove the light diffuser as directed in paragraphs 4.01 and 4.02.
- (2) Remove eight 1/4-20 by 1/2 hex head screws and lift off.
- (3) Install using reverse procedure.



NOTES:

1. THE PREFERRED LOCATION FOR A PROTECTOR IS AT THE POINT OF ENTRY INTO A BUILDING OR BOOTH. A PROTECTOR SHOULD BE INSTALLED IN A SET ONLY AS THE LAST RESORT. FOR ADDITIONAL INFORMATION ON STATION PROTECTOR AND SIGNALING PROTECTOR AND SIGNALING GROUNDS, SEE SECTIONS 460-100-400, 506-100-100, AND 508-100-100.
2. HOUSING OF ALL 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.

Fig. 8—Protection Requirements

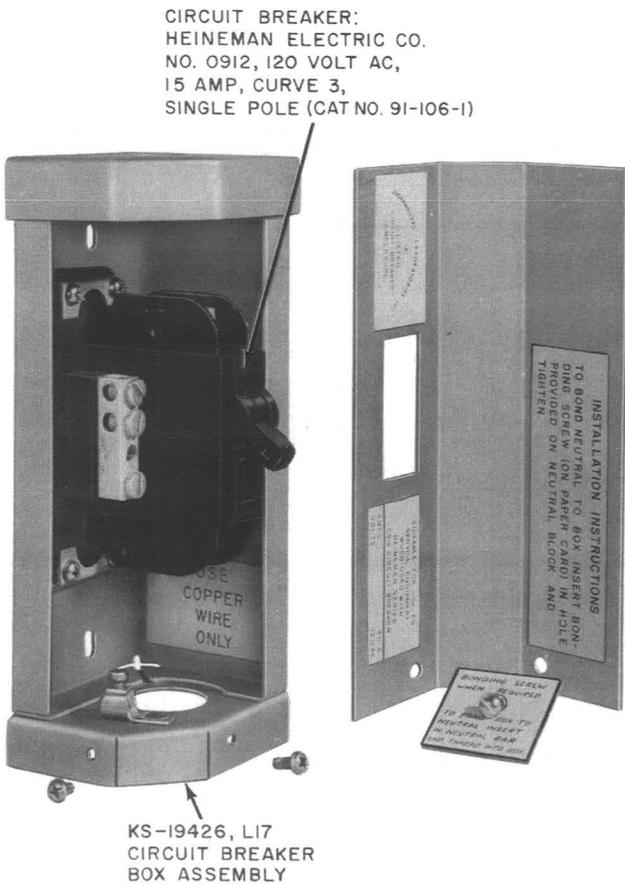


Fig. 9—Circuit Breaker Box With Circuit Breaker Installed

INSIDE ACOUSTIC PANELS

4.12 Remove acoustic panels as follows:

- (1) Using a KS-19192, List 1 wrench, remove four No. 10-32 by 1/2 security screws and remove the perforated aluminum access panel from above the telephone position.
- (2) Remove two 5/16-18 hex nuts and two 5/16-inch flat washers that secure lower portion of housing to post or wall mounting.
- (3) Remove four 3/8-18 by 3/4 hex head screws and four 3/8-inch flat washers that secure top portion of housing to post or wall mounting.
- (4) Remove writing shelf (paragraph 4.07).
- (5) Remove roof (paragraph 4.10 or 4.11).
- (6) Remove five No. 10-32 by 1/2 Phillips flathead screws from each retaining strip at rear of housing (Fig. 6).
- (7) Remove retaining strip.
- (8) Pull perforated panel forward from rear and lift off.
- (9) Install using reverse procedure.

OUTSIDE PANELS

- 4.13** If outside panels become damaged, replace the complete curved side panel assembly.



Fig. 10—Enclosure Ceiling



Fig. 11 — Removing Lamp Diffuser