

SHELTER BOOTH BN-858A INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This section tells how to install and maintain the BN-858A-type shelter booth.

1.02 This booth is designed:

- (a) For outdoor use. (It is ideally suited for sidewalk installations because it will supply the user with a well-lighted, semi-enclosed public telephone convenience. See Fig. 1.)
- (b) For all currently manufactured coin telephones, including the 235-type, without modification.



Fig. 1

2. DESCRIPTION, ORDERING, AND LOCATION

Description

2.01 The booth is constructed entirely of metal and glass. It is pedestal-mounted and supported by a 6-in. outside-diameter steel pipe.

2.02 Following are the structural parts of the booth:

- (a) High grade steel, porcelain enamel.
- (b) Stainless steel trim with all aluminum parts anodized.
- (c) Side panels of ¼-in. tempered glass, and a header sign of 7/32-in. glass for maximum strength.
- (d) Stainless steel directory shelf, single or double.
- (e) Lighting supplied by a 32-watt fluorescent circline lamp.
- (f) Selection of color limited to five colors: -11 (yellow), -12 (blue), -13 (red), -15 (orange), -16 (green).

2.03 Following are other features of the booth:

- (a) The BN-1624 cover guard which can be used without modifying the booth.
- (b) A back plate for mounting the dial instruction card frame.
- (c) The directory holder which can accommodate two directories in a drop-in vertical position.
- (d) The BN-858A can be wall-mounted.
- (e) The protector which can be mounted at the top of the booth or behind the access cover at the top of the post.

Ordering

2.04 Order shelter booth assembly piece parts as follows:

Wrapper and post assemblies. (See Fig. 6.)

Side section assemblies. (See Fig. 7.)

Top assemblies (structural). (See Fig. 8.)



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Top assemblies (electrical). (See Fig. 9.)

Glass and panel replacement. (See Fig. 10.)

Back plate for dial instruction card. (This must be ordered when used with 233- and 234-type coin boxes. See Fig. 6.)

Location

2.05 A satisfactory location for the BN-858A shelter booth should be considered thoroughly. The approach should be free of hazards, such as:

Broken sidewalks

Uneven sidewalks

Holes

Obstructions

Note: The location of the mounting and associated coin collector should be specified on the service order.

3. MOUNTING AND INSTALLATION

3.01 Following is mounting and installation information for the booth and its piece parts:

Mounting Post Installation

3.02 The complete installation is mounted on a concrete slab 40-in. by 40-in. by 4-in., and a circular pier, 12-in. by 18-in. The slab will cover half the pier (see Fig. 2). This will be used for all BN-858A shelter booth installations, except when concrete already exists; then only the 12-in. by 18-in. pier is necessary.

General Mounting Information

3.03 Standard mounting of the BN-858A shelter booth is on the anchor bolt assembly shipped with each booth and set into concrete prior to booth installation. The assembly may be ordered separately for advance installation.

3.04 The booth may be mounted on an existing concrete base with ½-in. expansion shields **OR** wall-mounted by ordering the booth with special wall-mounting brackets.

3.05 Electrical and phone connections may be made at either the top or bottom of the booth.

Anchor Bolt Assembly Installation

3.06 Position anchor bolt assembly (A) with any two adjacent bolts parallel to the front of the booth **AND** with bolts extending 2½ in. above the finished concrete surface.

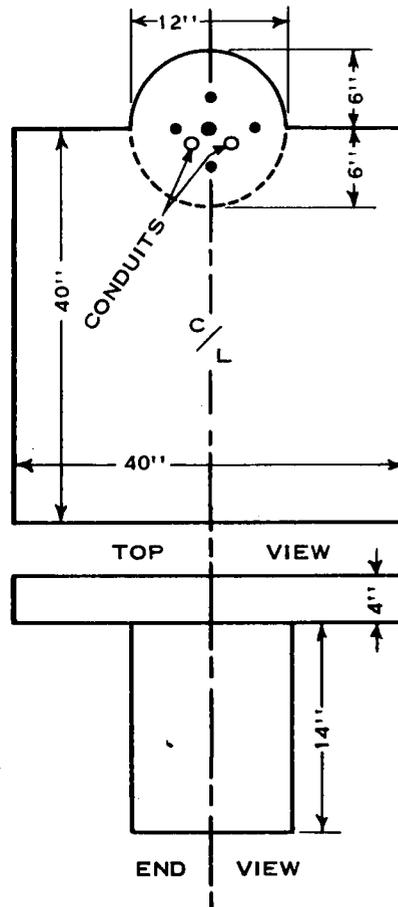


Fig. 2

3.07 Position underground conduit for electrical and phone connections to fit within the 5½ in. ID post. Add flexible conduit to end of underground electrical conduit (B) to reach junction box located approximately 28 in. above ground level.

Mounting of Post and Booth on Anchor Bolt Assembly

3.08 Be sure to allow sufficient time for concrete to cure around anchor bolt assembly before mounting booth (see Fig. 3).

- (a) Remove access cover plate (C) on post.
- (b) Place post on anchor bolt assembly (A) between nuts (D) with access opening at top and facing desired direction. Hand tighten nuts (D).
- (c) Pull conduit out through access opening and tie off.
- (d) Pull junction box (E) and pull wire out through hole in bottom of booth.
- (e) Position booth on top of post with junction box (E) and pull wire extending into center of post. Fasten booth to post with four Allen-head bolts (G) used as shipping bolts. Allen wrench is provided.
- (f) Connect conduit from (B) to junction box (E) and make electrical connections. Ground wire is provided on back of junction box.
- (g) Remove screw and washer (F) from back of junction box (E) and secure box inside post by placing screw and washer (F) through hole in post opposite access opening and into tapped hole in box.
- (h) Make telephone connections. Protector box may be installed on bracket on back of access cover plate (C) OR on subset bracket behind advertising card frame (J). Replace access cover plate (C).
- (i) Level booth with nuts (D) and permanently tighten.
- (j) Position cover (H) over anchor bolts. Align holes in cover over anchor bolts with holes in center. Hammer two drive screws (I) into anchor bolts.

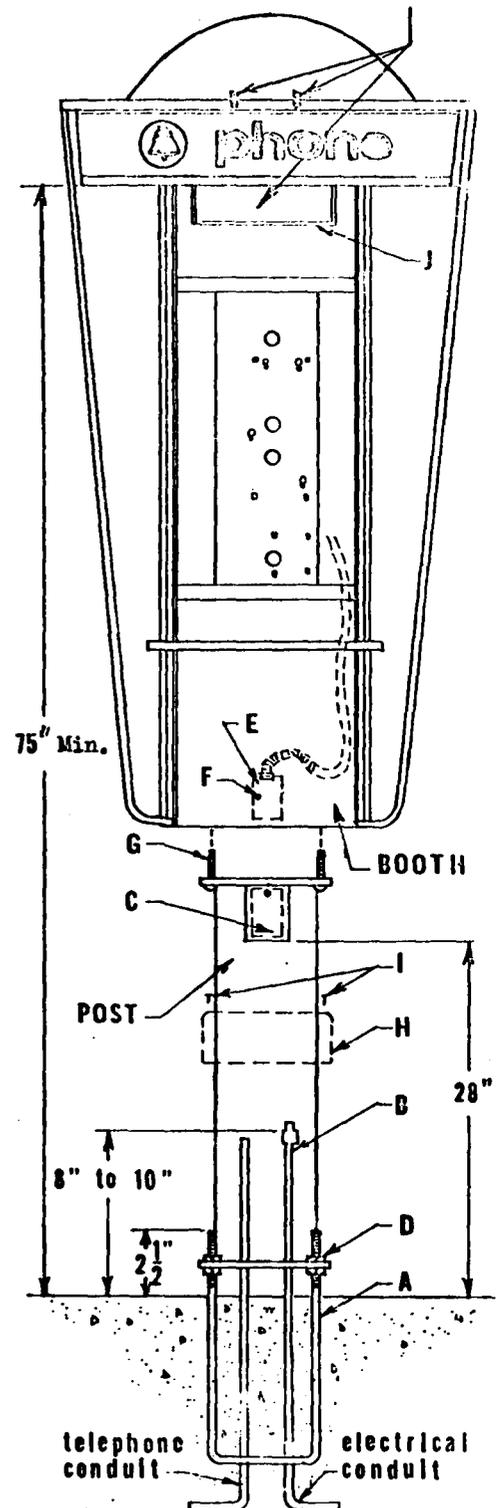


Fig. 3

Mounting of BN-858A Shelter Booth

3.09 When the BN-858A shelter booth is to be wall-mounted, a special wall-mounting kit must be ordered with the booth. The upper mounting bracket (B) is mounted on the booth before shipment. Fasteners for anchoring brackets (A) and (B) to the wall are not included (see Table A).

- (a) Remove lower mounting bracket (A) that is wired to the bottom of the directory facility on the booth (see Fig. 4).
- (b) Fasten lower mounting bracket (A) to the wall through the three (3) holes with the top of the bracket (A) 32 in. above the ground.

- (c) Remove the two (2) rear Allen-head bolts on the bottom of the booth. Allen wrench is provided.
- (d) Position booth on lower mounting bracket (A) and, while holding booth in place, fasten upper mounting bracket (B) to wall and replace the two (2) Allen-head bolts through the lower mounting bracket (A) into the booth.
- (e) Electrical and phone connections may be made at the top or bottom entry points. A pull wire is provided on backboard to complete phone connection.

TABLE A BN 2388 WALL-MOUNTING KIT FOR BN-858A SHELTER BOOTH		
QTY	PART NO.	DESCRIPTION
1	BN 223	CAPPED ELBOW (ELECTRICAL OUTLET)
1	BN 2411	FLAT BAR 1/4 IN. BY 2-1/4 IN. BY 19 IN. (INSIDE TOP)
1	BN 2408	UPPER MOUNTING BRACKET
1	BN 2409	LOWER MOUNTING BRACKET
1	BN 2407	COVER PLATE 5-3/16 IN. BY 6 IN. (LOWER HOLE COVER)

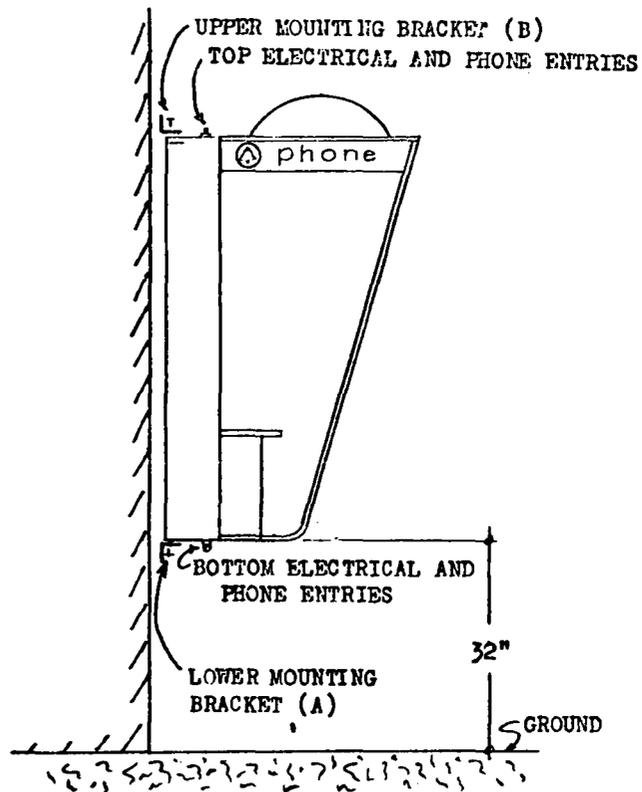


Fig. 4

4. WIRING AND CONNECTIONS

4.01 Wiring will be installed to meet the state and local electrical codes, and requirements of the telephone company. (An example of wiring is shown in Fig. 9.)

4.02 Connections for the coin collectors and subscriber set are covered in the 506 Division of the Practices.

5. BOOTH AND STATION PROTECTOR GROUNDING

5.01 Ground requirements are covered in the 460 and 508 divisions of Practices.

6. DIRECTORY INSTALLATION

6.01 The BN-858A Booth requires the use of end-hung directories. Binder rods and swivel are provided for mounting two directories. (See Fig. 5.)

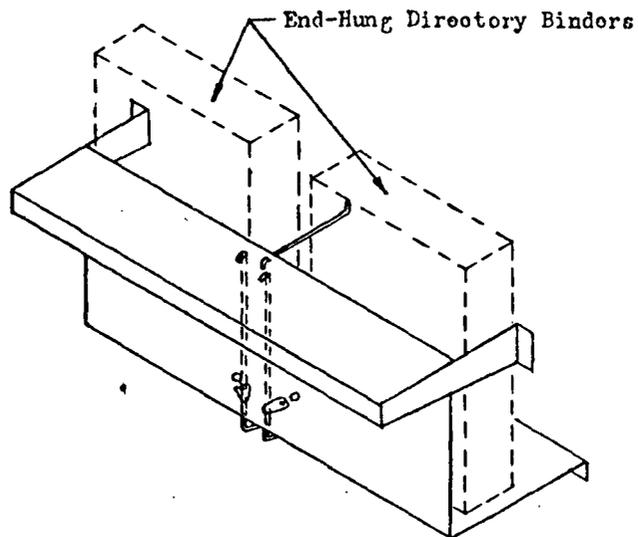


Fig. 5

WRAPPER AND POST ASSEMBLIES

KEY	PART NO.	DESCRIPTION	KEY	PART NO.	DESCRIPTION
A	BN 2313	WRAPPER ASSY, SPECIFY COLOR	M	BN 2320	ACCESS COVER PLATE W/SCREW
B	BN 2314	POST ASSY, SPECIFY COLOR, PLAIN, OR STRIPED	N	BN 2321	DIRECTORY ROD
C	BN 2315	POST COVER	O	BN 2322	BOOK SWIVEL
D	BN 2316	SHELF	P	BN 2335	BOLT, (4) 3/8"-16X1-1/4" BUTTON HEAD CAP SCREW
E	BN 2317	DIRECTORY BOX PAN	Q	BN 822	PLASTIC PANEL (ONLY) FOR CARD HOLDER
F	BN 728	JUNCTION BOX COVER W/2 SCREWS	R	BN 2420	RINGER MOUNTING PLATE
G	BN 820	CARD FRAME ASSY W/4 #8X1/2" FLAT HD. SCREWS AND PLASTIC INSERT	S	BN 2435	DIAL INSTRUCTION CARD FRAME *
H	BN 2318	ACCESS COVER PLATE	T	BN 2443	SINGLE DIRECTORY ADAPTER ASSY (OPTIONAL)
I	BN 359	SCREW, (3) #10-24X3/8", SLOTTED RD. HD.	U	BN 2453	DIRECTORY ROD DIVIDER
J	BN 1110	NUT, (3) #10-24 SQUARE	AA	BN 2469	ANCHORING BOLT
K	BN 1856	SCREW, (4) #8X3/4", A, PHIL BIND HD.	BB	BN 1253	ANCHORING NUTS, (8) 1/2" NC
L	BN 1475	SCREW, #6-32X1/2" PHIL FLAT	CC	BN 2324	ANCHORING BOLT W/8 NUTS
			DD	BN 2462	LARGE SURFACE MOUNTING PLATE ASSY (OPTIONAL)

* ORDER WHEN 233- OR 234-TYPE SETS ARE USED

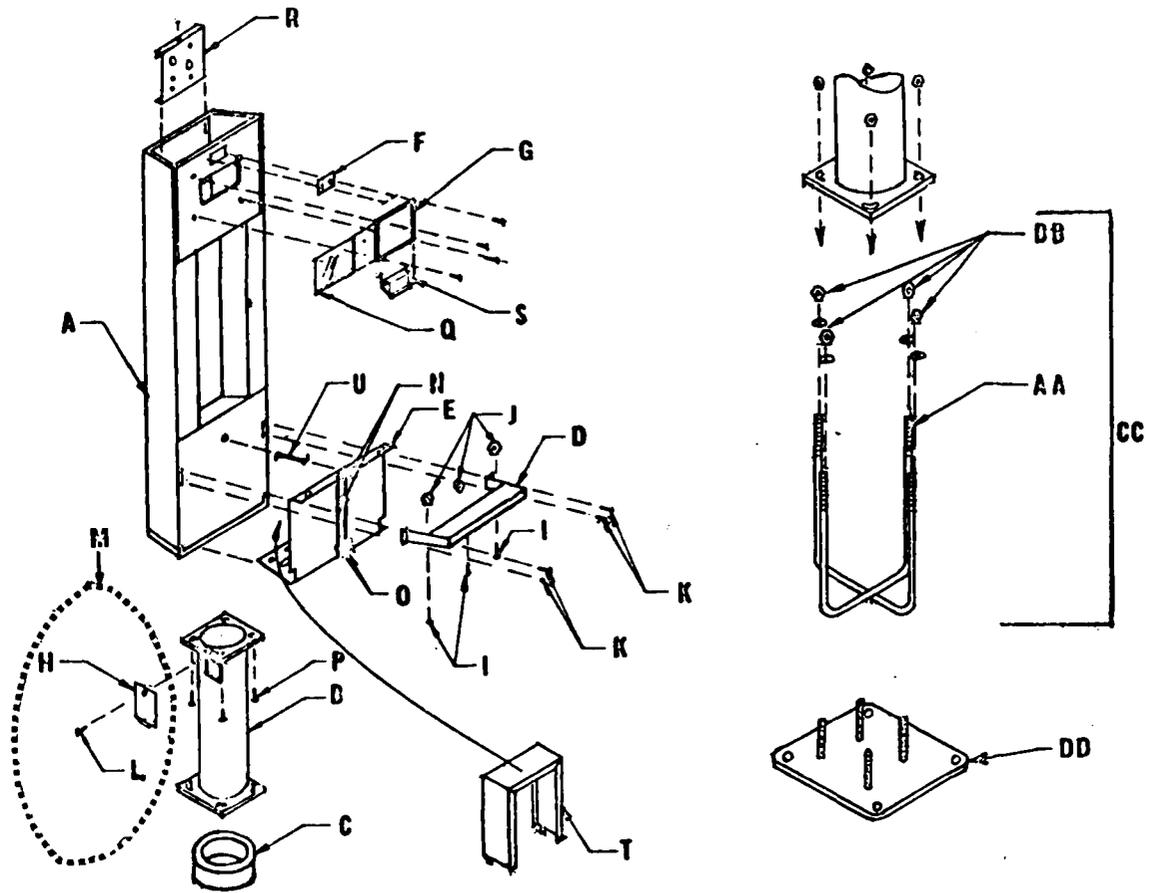


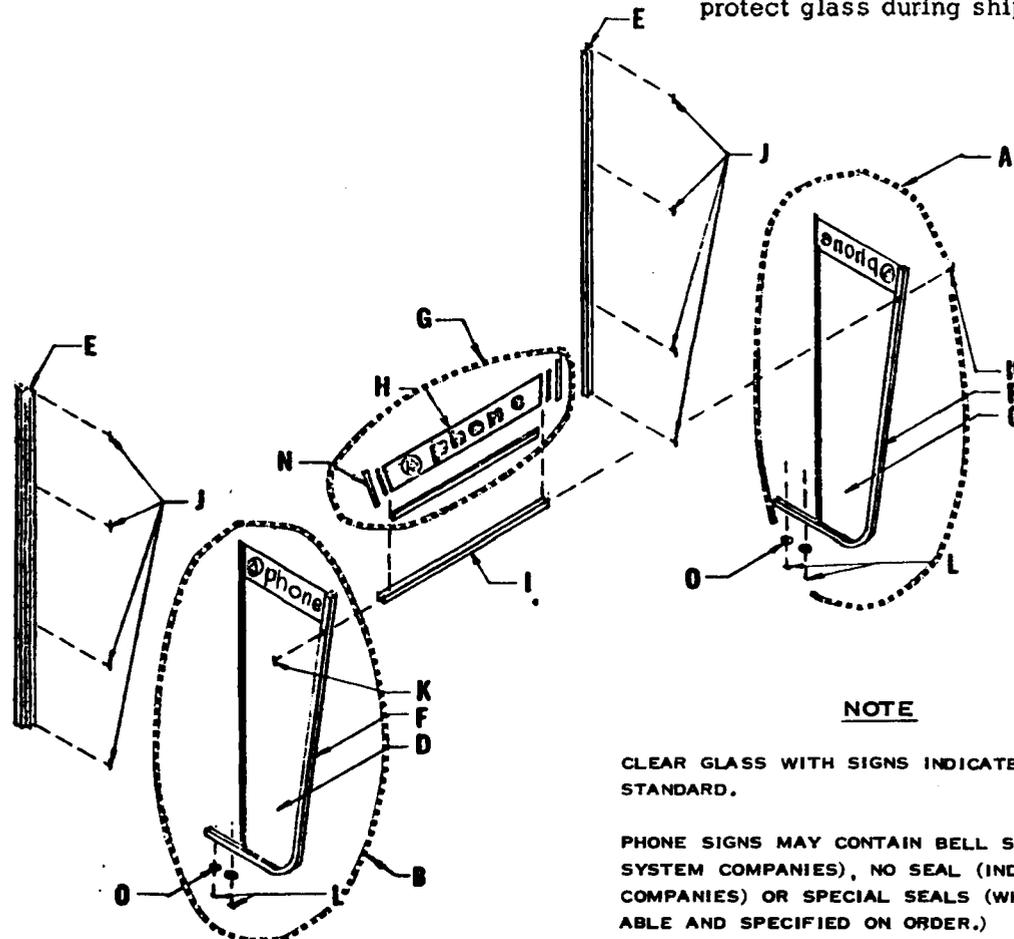
Fig. 6

**SIDE SECTION ASSEMBLIES
BELL SYSTEM COMPANIES**

KEY	PART NO.	DESCRIPTION	KEY	PART NO.	DESCRIPTION
A	BN 2325	RIGHT PANEL ASSY (W/BELL SEAL)	H	BN 2333	HEADER GLASS W/GASKET AND BELL SEAL
B	BN 2326	LEFT PANEL ASSY (W/BELL SEAL)	I	BN 2334	HEADER BOTTOM FRAME
C	BN 2327	RIGHT GLASS PANEL W/GASKET AND BELL SEAL	J	BN 1856	SCREW CONNECTING FRAME (8) #8 X 3/4", A, PHIL BIND HD.
D	BN 2328	LEFT GLASS PANEL W/GASKET AND BELL SEAL	K	BN 2174	SCREW (2) #10X1-1/2" STANDARD PHIL #6 OVAL HEAD
E	BN 2329	FRAME, CONNECTING	L	BN 103	BOLT (4) 3/8"-16X1-3/4" HEX
F	BN 2331	FRAME, LOWER	N	BN 2385	HEADER SIDE FRAME
G	BN 2425	HEADER ASSY (SIGN, GASKET, AND ALUM. SIDE PIECES) AND BELL SEAL	O	BN 209	WASHER (4) 3/8" FLAT

NOTE

Glass is shipped with gasket to simplify installation and protect glass during shipment.



NOTE

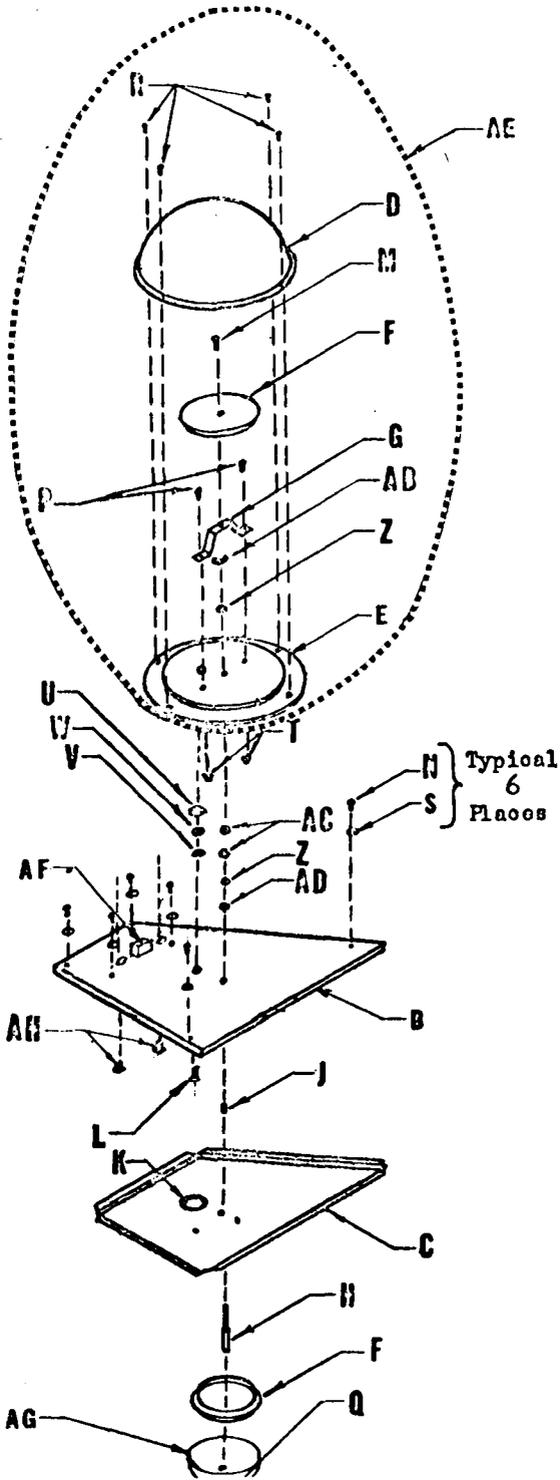
CLEAR GLASS WITH SIGNS INDICATED IS STANDARD.

PHONE SIGNS MAY CONTAIN BELL SEAL (BELL SYSTEM COMPANIES), NO SEAL (INDEPENDENT COMPANIES) OR SPECIAL SEALS (WHEN AVAILABLE AND SPECIFIED ON ORDER.)

SPECIFY ON ORDER IF GLASS IS TO BE SOLEX (GREEN TINT) OR SOLAR (BRONZE TINT).

Fig. 7

TOP ASSEMBLY (STRUCTURAL)

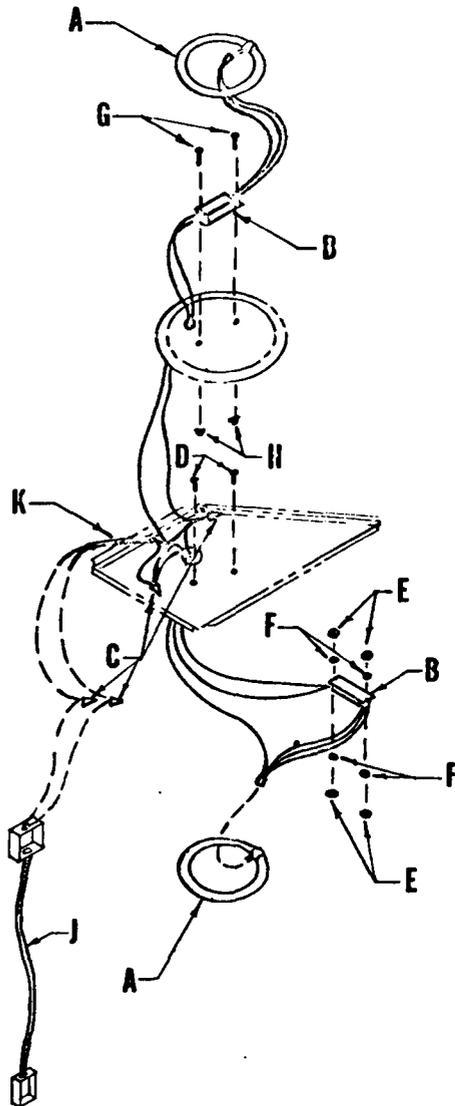


KEY	PART NO.	DESCRIPTION
A	BN 2405	COMPLETE TOP ASSY-ALL PARTS SHOWN
AE	BN 1802	LIGHT FIXTURE ASSY (LESS D, EXTERIOR DOME)
B	BN 2311	ROOF
C	BN 2312	CEILING
D	BN 1158	DOME, EXTERIOR, PLASTIC
E	BN 1805	DISC FOR EXTERIOR LIGHT FIXTURE
F	BN 969	DOME FOR EXTERIOR OR INTERIOR
G	BN 1804	BRACKET, EXTERIOR DOME
H	BN 300-11	SPACER, DOME, INTERIOR
J	BN 1116	SPACER, CEILING
K	BN 1814	GROMMET, CEILING
L	BN 2474	NIPPLE, CEILING
M	BN 1806	SCREW, DOME, 1/4-20X3/4" SLOT RD. HD.
N	BN 639	SCREW, ROOF (6) #10X1/2", B, PHIL
P	BN 178	SCREW, DISC BRACKET (2) #10-24X 1/2 PHIL BIND HD.
Q	BN 424	SCREW, INTERIOR DOME, 1.4-20X 1/2" SOCKET HD.
R	BN 1807	SCREW, PLASTIC DOME (4) #8-32X 3/8" PHIL BIND HD.
S	BN 2427	WASHER, ROOF (6) #10X1/2" ALUM. AND RUBBER
T	BN 1808	LOCKNUT, ROOF, #10-24 HEX
U	BN 1825	LOCKNUT, NIPPLE, HEX
V	BN 1588	WASHER, NIPPLE, 7/16"X1-3/16"X 1/16" NEOPRENE
W	BN 1587	WASHER, NIPPLE, 7/8"X1-1/4"X1/16" FLAT
Z	BN 681	WASHER, DISC, TO ROOF, 5/16"X 3/4"X5/64" FLAT
AB	BN 1812	WINGNUT, 1/4"X20
AC	BN 1473	NUT, SPACER DOME (2) 1/4"X20 STANDARD HEX
AD	BN 239	WASHER, SPACER DOME, 3/16"X 3/4"X1/8" NEOPRENE
AF	BN 2415	PHOTO ELECTRIC LIGHT CONTROL (OPTIONAL)
AG	BN 2448	LIGHT DIFFUSER (OPTIONAL)
AH	BN 2479	TOP ELECTRICAL ASSEMBLY (2)

Fig. 8

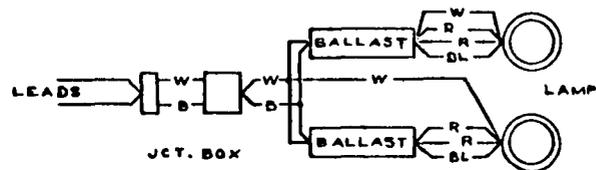
TOP ASSEMBLY (ELECTRICAL)

KEY	PART NO.	DESCRIPTION
A	BN 234	LAMP, 12" DIAM. CIRCLINE, (2)
B	BN 931	BALLAST (2)
C	BN 129	WIRE NUT - ELEC.
D	BN 246	SCREW, (CEILING BALLAST) (2) # 8-32X3/4", PHIL RD. HD.
E	BN 242	NUT, (CEILING BALLAST) (2) # 8-32 REG. HEX
F	BN 243	WASHER, (CEILING BALLAST) (2) 5/32X3/8X1/32 FLAT
G	BN 178	SCREW (DISC BALLAST) (2) #10-24X 1/2" PHIL BIND HD.
H	BN 1808	LOCKNUT, (DISC BALLAST) (2) # 10-24 HEX ENLARGE WASHER BASE (LOCK)
J	BN 2371	ELECT. HARNESS AND FLEX. CONDUIT ASSY - INCLUDES LOCKNUTS
K	BN 1118	WIRE HARNESS (CONSISTS OF 2 WIRES AND SLEEVING)



ELECTRICAL CONNECTIONS TO THE BN 858A BOOTH MAY BE MADE AT EITHER OF THE FOLLOWING TWO LOCATIONS:

1. JUNCTION BOX LOCATED BEHIND COVER PLATE AT THE TOP OF THE POST.
2. JUNCTION BOX LOCATED BEHIND THE ADVERTISING CARD FRAME.



SCHEMATIC WIRING
DIAGRAM

wire color code
 B = Black
 W = White
 R = Red
 BL = Blue

Fig. 9

GLASS PANEL REPLACEMENT INSTRUCTIONS

NOTE: HANDLE INDIVIDUAL PIECES OF GLASS WITH CARE -- PARTICULARLY THE RAW EDGES.

1. REMOVE TOP (A). (SEE FIG. 10)

REMOVE ALL SCREWS AND WASHERS FROM TOP SURFACE EXCEPT CENTER BOLT AS SHOWN.

TOP MAY BE PLACED TO SIDE AS SHOWN IN (FIG. 11) WITHOUT BREAKING ELECTRICAL CONNECTIONS.

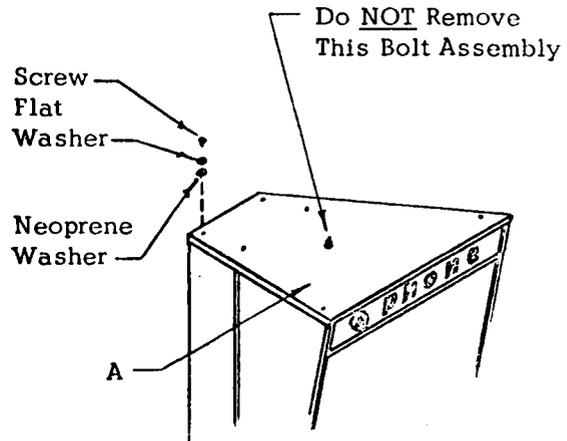


Fig. 10

2. LIFT DAMAGED GLASS PANEL UP AND OUT.

CLEAN OUT ANY BROKEN PIECES OF GLASS FROM FRAME.

3. LOWER NEW GLASS PANEL WITH GASKET INTO FRAME.

GASKET MUST BE IN PLACE ON PANEL. SLOWLY WORK INTO PLACE, SMOOTHING GASKET AROUND CORNERS.

4. REPLACE TOP (A) AND SECURE SCREWS.

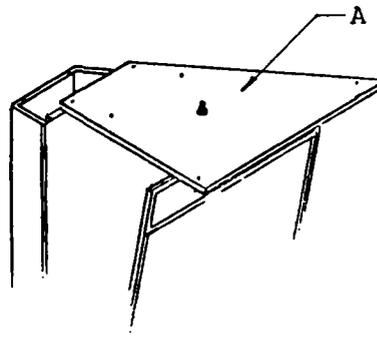


Fig. 11

MAINTENANCE

CLEANING:

THE MATERIALS IN THIS BOOTH REQUIRE ONLY OCCASIONAL WASHING WITH A MILD DETERGENT SOLUTION.

DO NOT USE ABRASIVE OR CAUSTIC TYPE CLEANERS