

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C44.201
Issue 2, May, 1953
AT&T Co Standard

TELEPHONE BOOTHS

NO. 9-TYPE

1. GENERAL

1.01 This section is reissued to include certain supplies applicable to the 9-type booth, information concerning the automatic door closer, and make other changes to bring this section up to date. The arrows used to indicate changes are omitted because of extensive changes in the scope and arrangement of this section.

1.02 The 9-type outdoor booth should be used (1) where booth equipment is either partially or entirely exposed to the elements, (2) at indoor locations where booths are subjected to severe service conditions, such as, in train sheds, etc., and (3) at locations where booths are used by patrons wearing wet bathing suits.

2. SUPPLIES

2.01 This part contains a listing of the materials used in assembling the 9-type booth and its features.

Anchors: **Hammer, Drive, 3/8" x 2"**, for fastening the galvanized angle iron to the concrete base.

Brackets: **P-347104 Galvanized Angle Iron**, for fastening the 9-type booth to the concrete base.

Door: **P-339070 closer**, for automatically closing the door on the 9-type booth. It consists of a non-corrosive steel spring and two mounting screws.

P-344820 Hinge. A piano hinge drilled to be used with the P-339070 door closer.

P-339072 Spacer. To permit adjusting the light switch for satisfactory operation when the door is moved from its partially closed position to full closure. Screws and lock washers furnished.

Door (Cont.): P-12A345 Stop. Consists of a plunger and spring and adjusting collar. Arranged to keep the door from closing entirely when under the control of the automatic door closer but allows the door to be shut the remaining 2 or 3 inches by hand.

Floor: Masonite, Presdwood 1/4" for replacement.
P-381104 Stainless Tread similar to that approved for indoor booths.

Panels: P-480034 Glass Door Panel 8-13/16" x 25-7/16" for the upper section of the left door.

P-480035 Glass Door Panel 6-5/16" x 25-7/16" for the upper section of the door hinged to the booth.

P-480036 Glass Door Panel 8-13/16" x 33-1/16" for the lower section of the left door.

✓ **P-480037 Glass Door Panel 6-5/16" x 33-1/16"** for the lower section of the door hinged to the booth.

No. 56A Wireglass Side Panel 29-13/16" x 18-7/8" for the upper section of the booth side when the booth is exposed on all sides.

No. 57A Wireglass Side Panel 32-1/16" x 18-7/8" for the lower section of the booth side when the booth is exposed on all sides.

No. 58A Plywood or Masonite Side Panel 29-13/16" x 18-7/8" for the upper section of the booth side when the booth is placed with the sides enclosed in a niche, etc.

No. 59A Plywood or Masonite Side Panel 32-1/16" x 18-7/8" for the lower section of the booth side when the booth is placed with the sides enclosed in a niche, etc.

Roof: Galvanized Sheet Iron. Peaked roof for use with a 9A booth.

Plywood. Flat roof for use with 9B booth designed to be placed where the top is protected.

Separator: No. 3A Pine Separator 3/4". Intended for use only at multiple installations of the 9B booths.

Screws: Wood, Galvanized Coach 5/16" x 2-1/2" for fastening the galvanized angle irons to a wooden foundation.

Wood, Galvanized #14-1" for fastening the galvanized angle iron to the booth.

3. DESCRIPTION

3.01 The No. 9-Type Telephone Booth is shown in Fig. 1. As indicated it may be equipped with either a peaked roof of galvanized sheet iron or other material for outdoor use or a flat plywood roof.

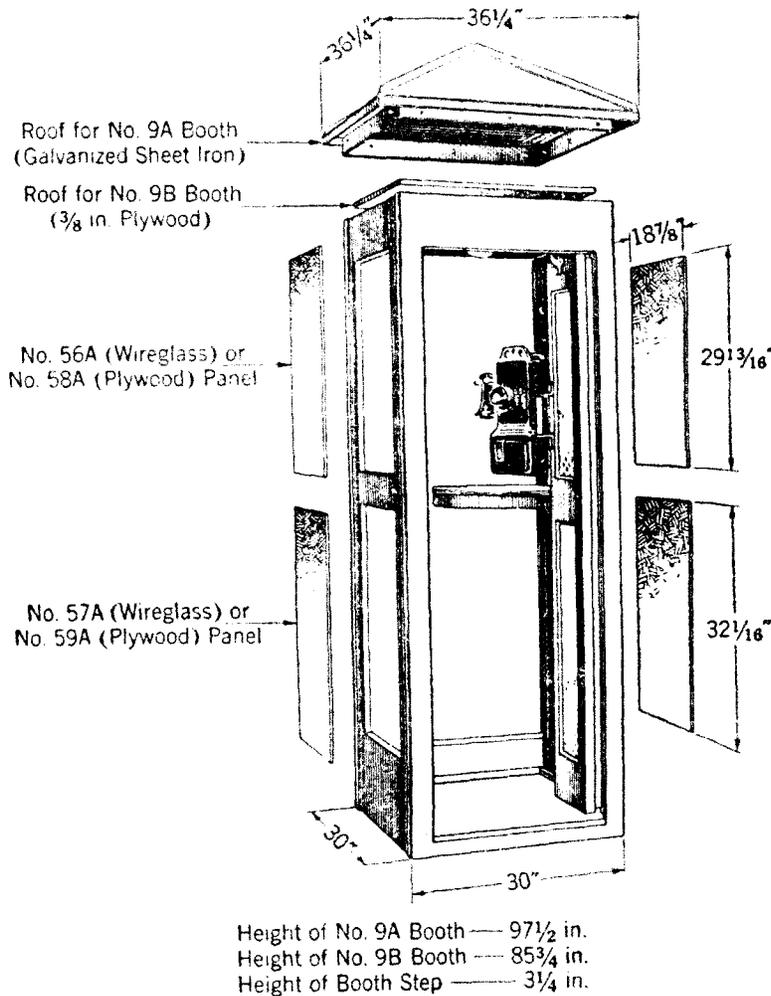


Fig. 1

3.02 The flat roof is intended for use only at semi-exposed locations where the roof is not exposed to the elements or at indoor locations such as mentioned in Paragraph 1.02.

3.03 The booth with the peaked metal roof is coded 9A and the one with the flat wood roof is coded 9B. The 9A and 9B booths are identical except for the roof. The booth body is constructed principally of 1-1/4-inch Parana Pine and is equipped with a folding door having wire glass panels. The construction is such as to eliminate the need for end panels or back panels. In addition to the booth body, door and roof, the booth code includes a ceiling of the same type used in the indoor type booths, 4A light fixture, corner backboard, shelf, linoleum floor covering and linoleum base plates. If booth light is not required booth should be ordered "less light fixture" and standard apparatus blank will be substituted. No. 9-type booths are not designed for use with booth seats.

3.04 The booth sides may be equipped with either 1/4-inch wire glass or 1/4-inch 5-ply wood panels. Generally speaking, wire glass panels are preferable from the standpoint of appearance and as a deterrent to vandalism. **The wire glass or plywood panels for the sides are not included under the booth codes and must be ordered separately.** These panels are shipped separately and should be added to the booths in combinations to meet specific service requirements at the time the final painting is done. The panels are retained by means of interior wood moldings furnished as part of the booth. The moldings are fastened in place with escutcheon pins. The lower panels are somewhat longer than the upper panels as shown in Fig. 1. **The upper and lower wire glass panels are coded 56A and 57A respectively, and the corresponding plywood panels are coded 58A and 59A.**

4. FINISHING

4.01 All interior and exterior wood surfaces of the booths, panels and separators are primed at the factory with a suitable sealer. Depending on atmospheric conditions, this retards swelling and warping due to absorption of moisture or prevents excessive drying and checking during the interval between manufacture and final painting. A coat of asphalt paint is also applied at the factory to the underside of the floor as a protection against moisture. The exterior of the galvanized sheet iron roof supplied with the No. 9A booth is given a special treatment to insure paint adherence and is factory-primed with gray paint.

4.02 The interior of the booth, including inside surface of door, shelf, card frame, directory hanger and hardware should be finished with exterior enamel.

4.03 A good grade of outside paint or enamel which has been found to be serviceable under the conditions, obtained locally, should be applied to the booth exterior.

4.04 The roof of the No. 9A booth should be finished with two coats of good grade outdoor paint.

5. LOCATING

(A) Preliminary Survey

5.01 A Telephone Company representative will generally:

(a) Select space on the premises for the booths and arrange that this space is cleared in time for delivery of booth.

(b) Where necessary, make arrangements with the agent for protecting the booth from such hazards as vehicular traffic, etc., by the provision of protective bumper posts, iron railings, etc.

(c) Make arrangements with the agent for the connection of booth lighting equipment and discuss with him the arrangement for replacing booth lamps, and the furnishing of electric current. **If provision for blackouts is necessary, arrangements should be made to ensure that the lighting circuit to which the booth light is connected is provided with a switch which will be opened by the agent or other responsible person.**

(d) Where concrete base is required, make suitable arrangements for its provision. (See Paragraph 5.02(b).)

(e) Furnish complete information to the Plant Department for the preparation of their orders for booth installation.

(B) General Requirements

5.02 Booths shall be located as specified on service order or attachment thereto. If location specified conflicts with any of the requirements outlined herein, the supervisor should be notified and installation should not be started unless special instructions are received.

(a) No special foundation is required when No. 9-type booth is installed (1) Indoors, (2) On concrete sidewalks, platforms, etc., or (3) On wooden porches, platforms, floors, etc., that are a permanent part of a building.

(b) Where booth foundation of the types outlined in (a) above are not available, a concrete base similar to that shown in Fig. 2 should be provided. (See Paragraph 5.01(d).)

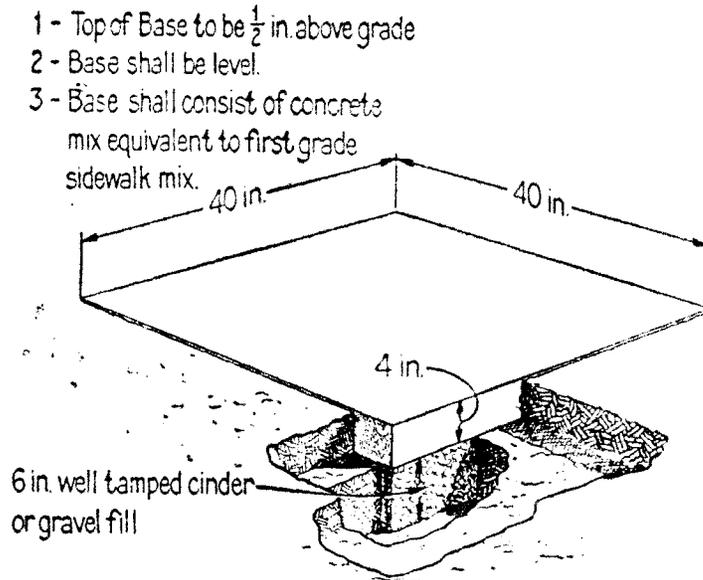


Fig. 2

- (c) Booth should be easily accessible to the public and should be so located that (1) the approach to the booth is free from hazards such as service pits or lifts, curbs, broken or uneven sidewalks, etc., (2) booth equipment will not be exposed to damage from vehicular traffic, (3) sufficient space is available over top of booth to permit access to equipment installed on upper side of booth ceiling, (4) exterior surfaces of glass panels in booth sides are readily accessible for cleaning.

6. INSTALLATION

6.01 When the surface on which booth is to be installed is not level, shimming strips should be provided so that booth rests firmly on its four sills. These strips should be at least 1-1/2 inches wide and should be given two over-all coats of asphalt paint to prevent decay.

6.02 When special foundations are provided (see Fig. 2) the booth should be placed with the front edge approximately 1/2 inch from the front edge of the foundation. **The difference in level between the booth floor and the grade in front of the booth should not be more than 4 inches.**

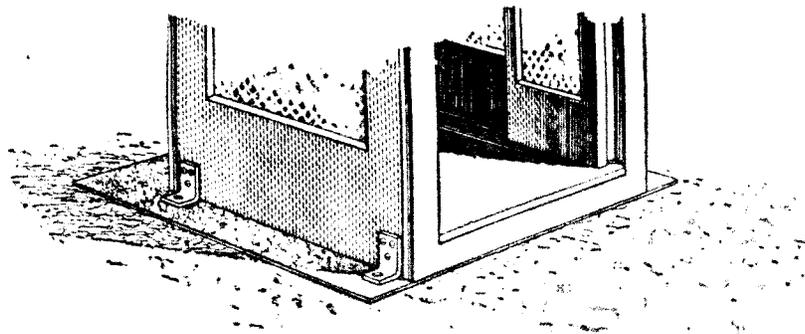


Fig. 3

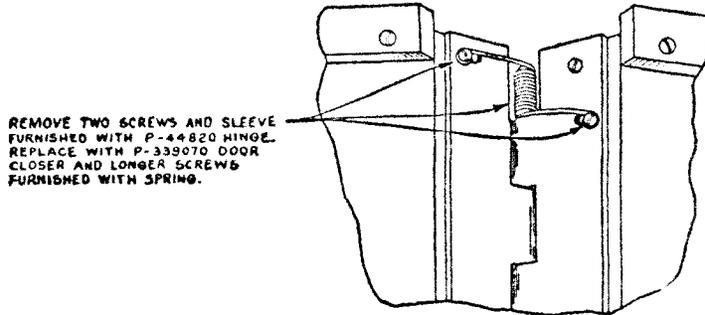
6.03 All booths, except those installed indoors, should be securely attached to their foundations. **Unless outdoor booths are well anchored to foundations that are solid and level the wood joints become loose, which in turn leads to entrance of water and rapid deterioration of the paint.** Outdoor booths should be secured with galvanized angle iron brackets, the number depending on the degree of exposure. A booth which is entirely in the open should be attached to its foundation with a minimum of six brackets, two at each side and two at rear of booth (see Fig. 3). The brackets may be omitted at each side or back which is placed adjacent to a wall or building. Brackets should be attached to booth body with 1 inch No. 14 Galvanized Wood Screws. Brackets should be attached to booth foundation with the proper fasteners listed under supplies.

6.04 At multiple installations of No. 9B Booths (**permissible only where booth tops are not exposed to the elements**) No. 3A Booth Separators should be installed in the same manner as separators between indoor type booths (1-1/2 In. No. 9 R. H. Oxidized Wood Screws, 8 required per booth side). Drill clearance holes in booth sides for wood screws.

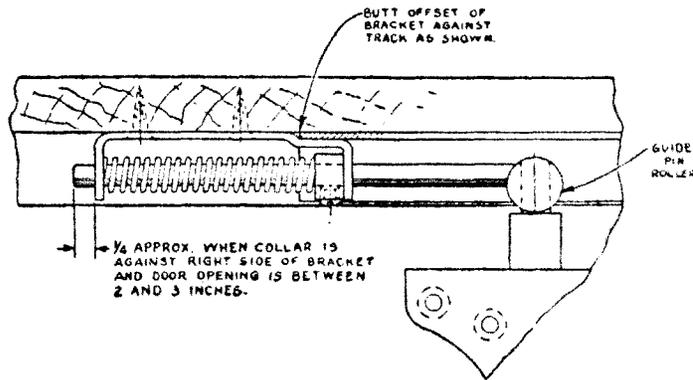
6.05 Booths may be equipped with the automatic door closer which consists of a non-corrosive steel spring and two mounting screws. The closer is mounted on the pivot of the P-344820 hinge in such a way so as to automatically close the booth door. See Fig. 4.

6.06 An adjustable door stop, which consists of a bracket containing a plunger and spring, and a collar for the adjustment of the plunger, is mounted in the track block with its offset against the end of the metal track. The end of the plunger will normally extend approximately 1/4 inch beyond the rear bearing hole of the bracket. If the door is not stopped by the plunger in this position, the set screw in the collar is loosened and the head end of the plunger is extended slightly toward the door. See Fig. 4.

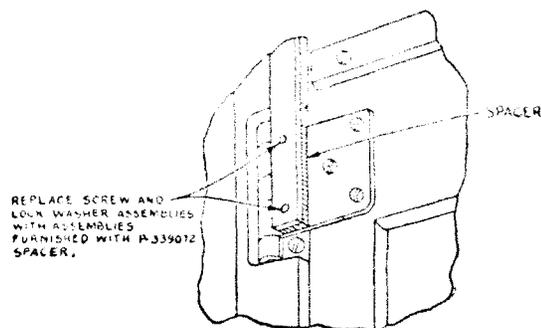
6.07 If the booth lights are controlled by the door action, a spacer (P-339072) should be inserted between the upper butt hinge and the pivot arm, using the longer screw and lock washer assemblies provided. See Fig. 4.



P-339070 DOOR CLOSER



P-12A 345 DOOR STOP



P-339072 SPACER

Fig. 4

7. WIRING

(A) Telephone Wiring

7.01 The coin collector and subscriber set are wired to a connecting block which is inverted and mounted on a bracket so that it is accessible from inside the booth when the faceplate of the 4A light fixture is released. Wiring to booth (connecting block) should be made with Bridle Wire or Parallel Drop Wire in accordance with standard wiring methods.

7.02 A wire span longer than 25 feet should not be attached to a booth body.

7.03 Do not place station protectors on booth exterior or at locations where user of booth would have ready access to protector.

7.04 Wiring should enter booth between upper side of booth ceiling and lower edge of booth roof. Drill entrance hole through booth side or back. Tape entrance wires so as to seal hole effectively.

Note: Do not use ventilating holes in underside of roof on No. 9A booth for wire entrance.

(B) Electric Light Wiring

Note: Due to the design and construction of the No. 9 type booth it is not practicable to install directory light fixtures on the sides of the booth.

7.05 All electric light wiring should be provided for by the agent (see Paragraph 5.01(c)) and should be done in accordance with the rules and regulations of the "National Electric Code" (Rules and Regulations of the National Board of Fire Underwriters) and any supplemental local rules and regulations.

Booths Located Indoors

7.06 The method of connecting lighting and ventilating equipment on booths located indoors should be in accordance with standard procedure for indoor type booths.

Booths Located Outdoors

7.07 The operation of the lighting and ventilating equipment on booths located outdoors will depend on the conditions present at a particular installation. The arrangements provided may be one of the following:

(a) **Booth Light, Booth Ventilator or Both Under Control of Booth Door Switch.** This arrangement is the standard arrangement for indoor type booths and is shown schematically in Fig. 5.

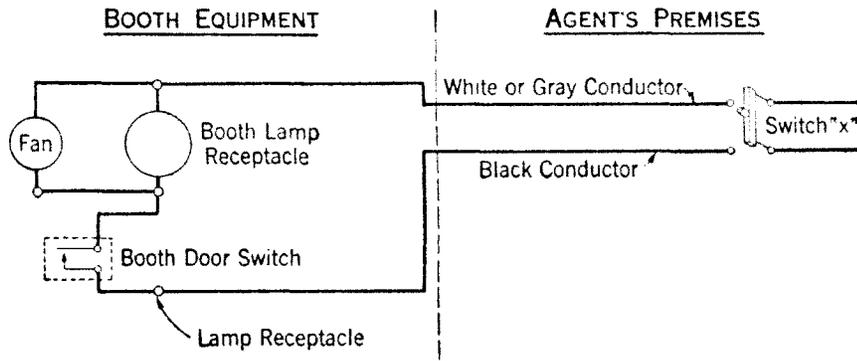


Fig. 5

(b) **Booth Light Under Control of a Switch Located on Agent's Premises.** This arrangement will require reconnecting the black conductor of the electric light circuit wiring to the "switch" terminal of the lamp receptacle as shown in Fig. 6. This arrangement should not be used when a KS-8164 Ventilator is provided.

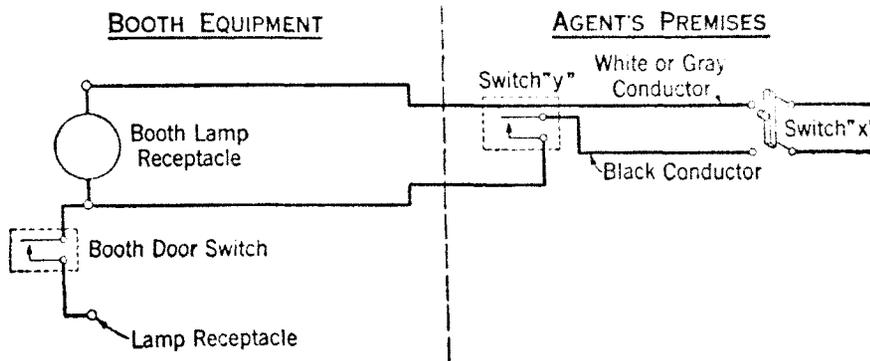


Fig. 6

(c) **Booth Light Under Control of a Switch Located on Agent's Premises and KS-8164 Ventilator Under Control of Booth Door Switch.** A schematic drawing of this wiring arrangement is shown in Fig. 7.

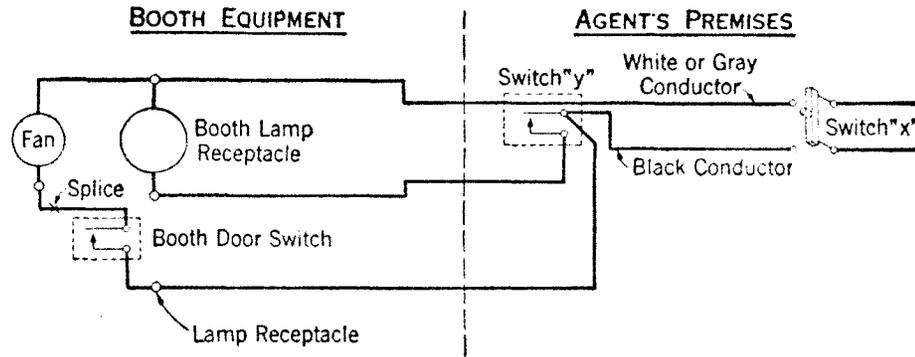


Fig. 7

7.08 To make the booth lighting and ventilating equipment operative it is necessary for the agent to arrange for the extension of a lighting circuit to the booth equipment. **All electric light wiring exposed to the weather should be in grounded rigid and metal conduit, or approved equivalent.**

7.09 If provision for blackouts is necessary (see Paragraph 5.01(c)) and switch "Y" is provided, as in Fig. 6 and Fig. 7, this may serve the purpose and switch "X" may not be required.

7.10 The KS-8164 Ventilator should only be provided when specified on service order. The KS-8164 Ventilator should be installed in accordance with the standard methods outlined for indoor type booths.

8. CARD FRAMES AND DIRECTORY HANGERS

8.01 KS-14123 Card Frames and KS-7302 Directory Hangers should be installed at locations shown in Fig. 8. Install KS-7302 Directory Hangers with the four 7/8-inch No. 8 O.H. Oxidized Bronze Wood Screws furnished with hanger.

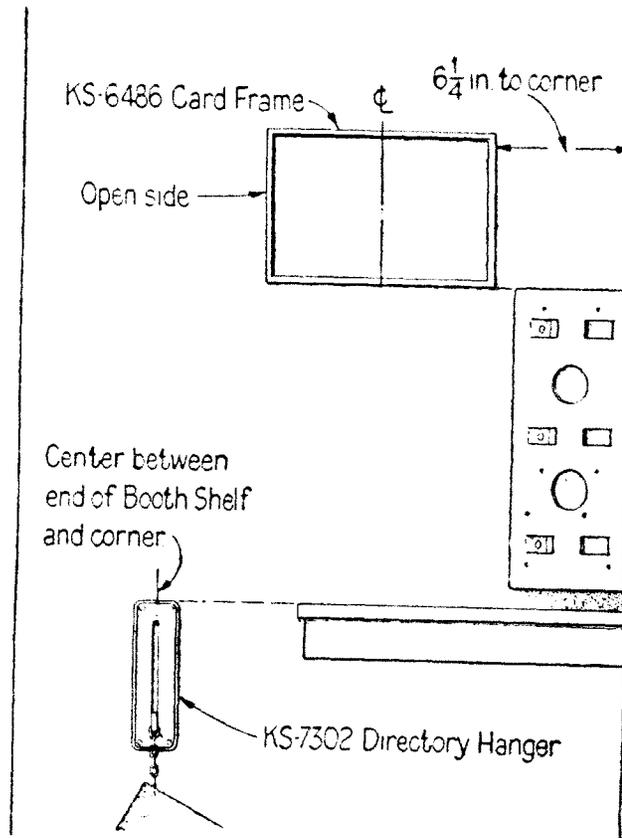


Fig. 8

8.02 Install directories in Directory Binders of the proper type in the manner outlined in C46.102—Directory Hangers.

9. SIGNS

9.01 Service order will specify type, number and location of signs to be installed on booth.

10. MAINTENANCE

10.01 For surface protection interior and exterior of No. 9-type booths should be repainted periodically, frequency to be determined by local conditions, appearance, etc. **Frequency of exterior repainting should be adequate to prevent water from seeping into joints.**

10.02 Booth surfaces should be thoroughly cleaned before repainting. Use first quality paints or enamels obtained locally, for refinishing booth exterior or interior and roof.

10.03 When booths are reconditioned:

- (a) Cracked or broken door or side panels should be replaced.
- (b) Booth Door Track should be lubricated, using one of the standard booth door track lubricants.
- (c) Operation of booth door, door closer, and door stop, if provided should be checked and where necessary, properly adjusted. (Check operation of door after repainting work is completed.) Penetrating oil may be used on the piano hinge.
- (d) Operation of booth light and ventilator should be checked and where necessary, properly adjusted.
- (e) Check condition of directories, directory binders, card frames, instruction cards and coin collector. Where necessary, take required action to insure good appearance.
- (f) Check coin collectors for grounded or energized housings. Make all tests on station and collector equipment in accordance with standard practices.
- (g) Approach to booth should be checked to insure that it is free of hazards. (See Paragraph 5.02(c).)
- (h) Check security of booth anchorage to foundation.

Note: Where booth equipment is damaged by vehicular traffic, equipment should not be reconditioned until the supervisor has determined whether protective bumper posts, iron railings, etc., are required to protect booth equipment or whether booth should be relocated. **All protection for booth equipment on agent's premises should be provided and maintained by the agent.**