# BOOTH-OUTDOOR

# KS-14611

# MAINTENANCE

## 1. GENERAL

**1.01** This section is reissued to:

- Revise references

**1.02** The local telephone company shall establish the appearance standards of all exposed surfaces.

**1.03** The local telephone company shall establish the safety standards for all booths.

**1.04** All screws threaded into aluminum parts during the course of repair shall be coated with KS-19094 antiseize compound.

## 2. BOOTH CHECK POINTS

- Safe approach to booth (have dangerous conditions corrected)
- Appearance of booth
- Electrical grounding
- Door operation
- Panels and signs
- Booth lighting
- Directories and binders
- Dome and lights
- Security of booth anchorage
- Loose screws and bolts
- Seat assembly (if applicable)
- Shelf Assemblies
- Power cords

## 3. CLEANING

**3.01** The KS-19432, List 1 cleaner is available for use as a general cleaning agent.

**3.02** Complete cleaning information may be found in Division 508, section entitled: Booth and Shelf Cleaning.

## 4. DOOR REQUIREMENTS

**4.01** Frames should not be broken or cracked.

**4.02** Replace door sections that have broken mitered joints. Repair solid-type (one piece) sections (Fig. 1). Fracture usually occurs because of misuse, improper adjustment, or because booth is not level. Check the cause and repair as follows:

(1) Close the door against a thin wooden block to close fracture.

(2) Place B-931522 door repair bracket on the top outside of the door. Align edge of bracket with edge of door that is closest to fracture.

(3) Drill seven mounting holes 1/2-inch deep (drill size No. 26). Secure bracket with seven No. 8-32 by 1/2 Phillips FH self-tapping screws, type F of corrosion resistant steel.

*Note:* When brackets are installed on both door sections, check that brackets do not interfere with open position of door. Relocate felt bumper if necessary.

**4.03** Door should remain open 2 to 3 inches when it is at normal position. This clearance can be eliminated in cold weather, if desired. Adjust so that door closes without slamming (see 5.01).

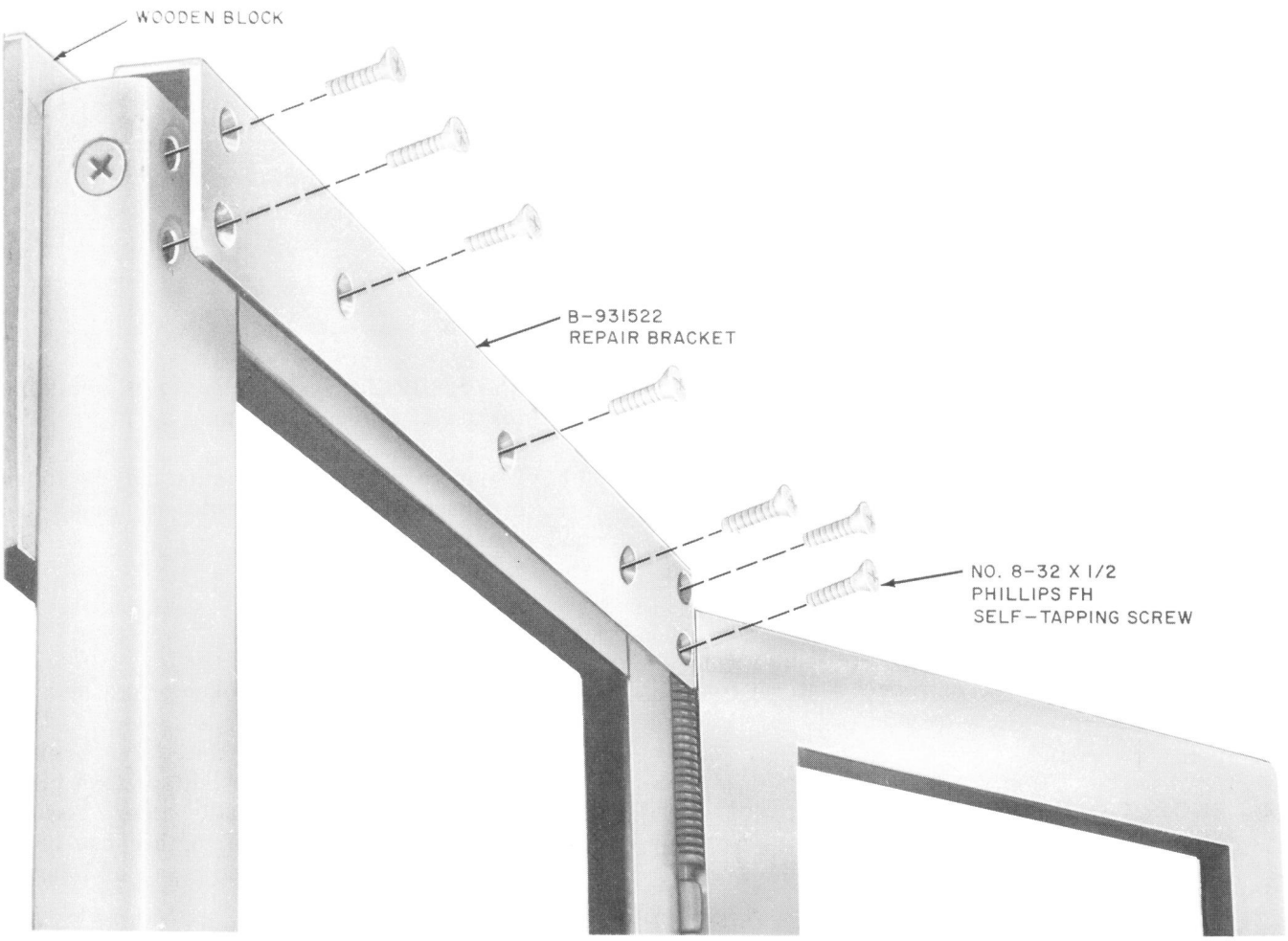


**Fig. 1—Installation of Door Repair Bracket**

**4.04** When pushed closed form inside, the door should remain completely closed.

**4.05** A slight pull on the handle should open and restore the door to normal position.

**4.06** Open-door clearance from the writing shelf is about 1 to 2 inches.

**4.07** Door operation should be free without binding, squeaking, or chattering (see 5.03).

**4.08** Rubber frame bumpers shall be in place.

## 5. DOOR ADJUSTMENTS (See Fig. 2.)

**5.01** ***Normal Positions***, these adjustments should be made in sequence:

(1) Loosen setscrew on spring stop assembly.

(2) Place door in normal position (2 to 3 inches) from corner column.

(3) Position rod of spring stop assembly against door roller.

(4) Secure rod in this position by placing collar of the spring stop assembly against the bracket of the spring stop assembly, and tighten setscrew.

(5) Loosen mounting screws on the adjustable stop assembly. Move assembly left or right to obtain the spring tension required to return door to normal position. Tighten screws and recheck tension.

(6) Check that door stop assembly is not loose or damaged. If top of roller is not inside track throughout door travel, reposition assembly.

**Open Door Clearance**

**5.02** ***Check Points:***

(1) Angle associated with bumper should be tight.

(2) Replace bumper if worn or damaged.

**Door Operation**

**5.03** Eliminate binding, squeaking, or chattering:

(1) Check hinge wear. Clearance between hinge barrels should not exceed 1/16-inch; gauge by eye. Replace worn hinges.

(2) Replace defective spring of the top hinge assembly only if the assembly is the latest type. (Fig. 3.) Replace all earlier type assemblies with the new top hinge assembly.

(3) If door hinges squeak, lubricate at each joint between the barrels with KS-14774, L2G lubricating grease or equivalent; a KS-14796 oiler may be used.

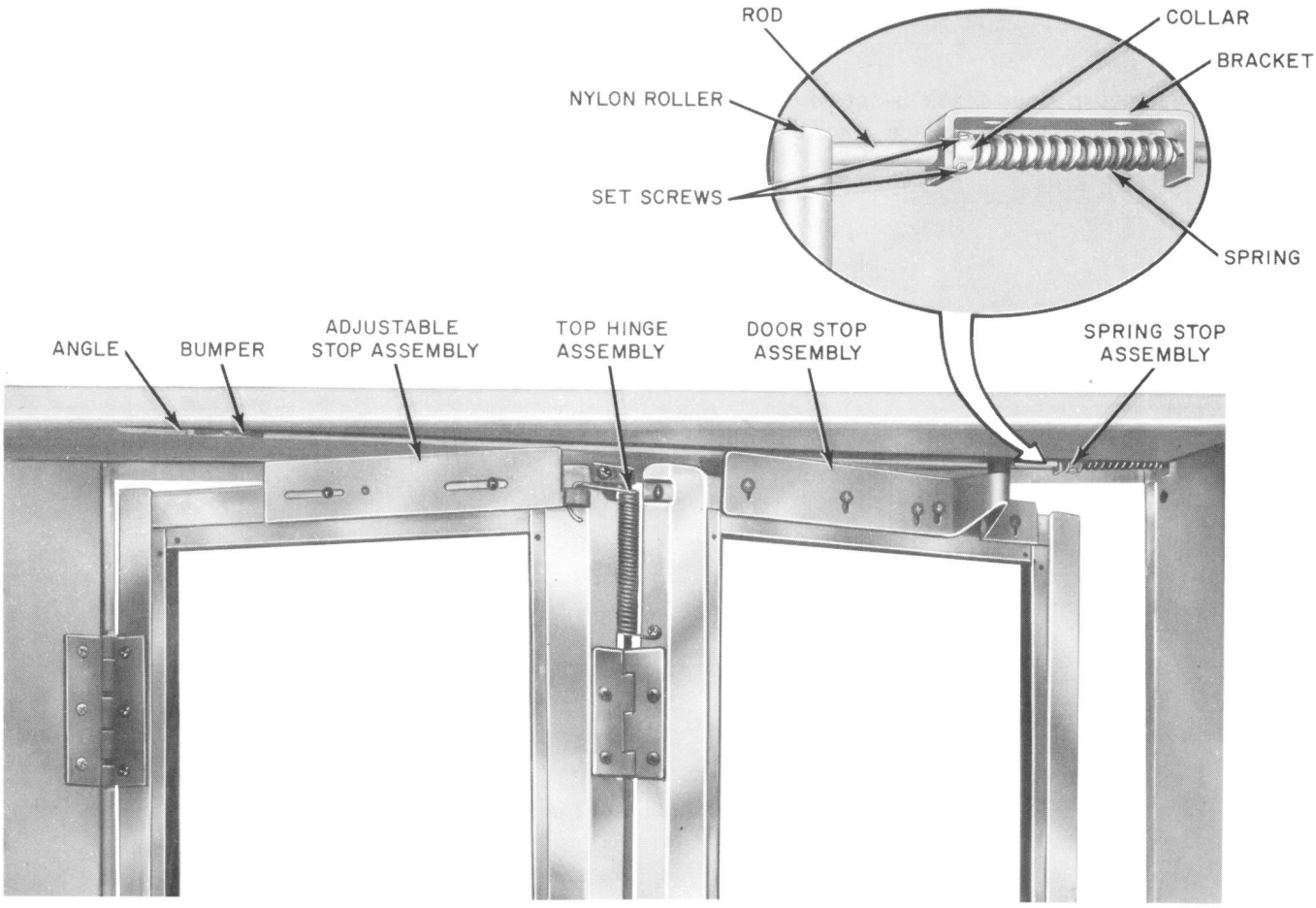


**Fig. 2—KS-14611 Booth Door Adjustment**

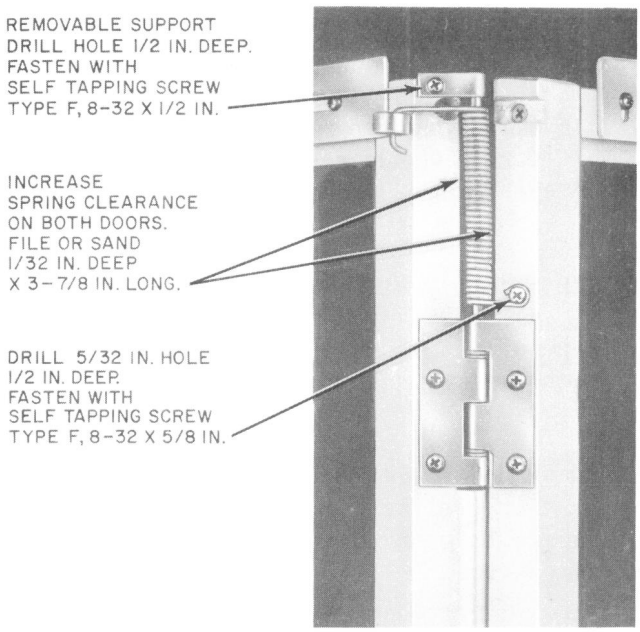


**Fig. 3—Installation of Top Hinge Assembly**

**5.04** When worn door track is interfering with operation of door, replace track, as shown in Fig. 4.

## 6. PANEL REPLACEMENT

### SIGN PANELS, DOOR, SIDE AND REAR PANELS

***Warning: Wear gloves and eye protection when handling glass panels to prevent personal injury. Use care when handling tempered glass. Nicks or scratches will damage the glass and may cause it to shatter. Do not allow metal tools to come in contact with edge of tempered glass. Before installation, examine glass for nicks or chips along edges. If such defects are apparent, do not use this glass.***

**6.01** Replace those panels which are broken or which will not meet local telephone company standards. Refer to Table A for available door, side, and rear panels and glazing strips. Refer to Table B for available sign panels and glazing strips.

**6.02** Booth panels and signs are held in place by four interlocking retaining strips inserted in sequence as shown in Fig. 5. The No. 4 strip is rippled and is held in place by interface friction. Refer to Table C for retaining strips.

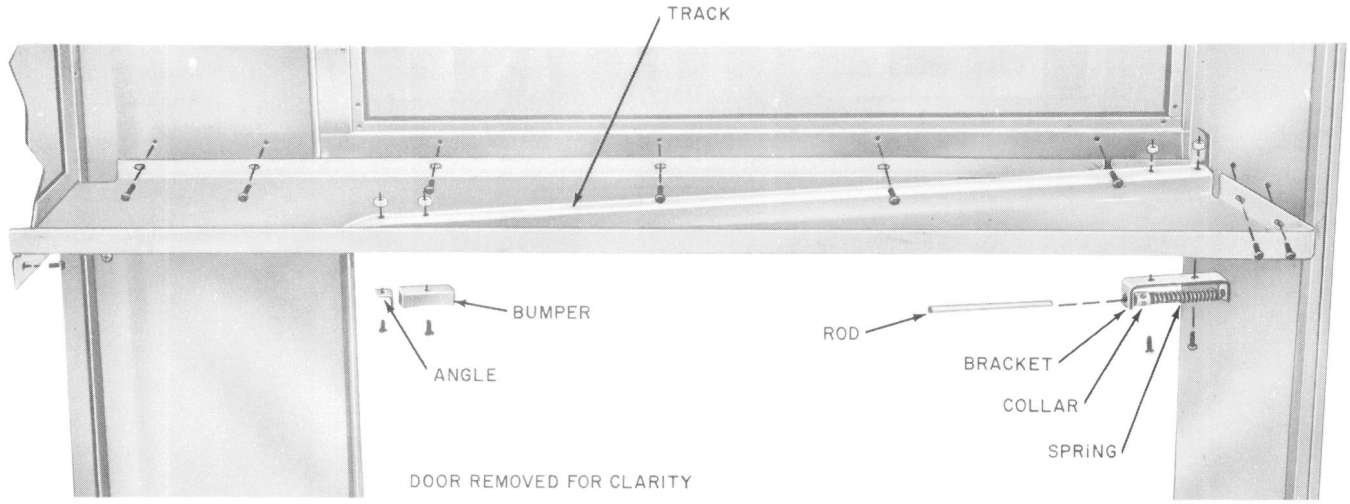


**Fig. 4—Installation of Door Track**

## TABLE A

## DOOR, SIDE, AND REAR PANELS AND GLAZING STRIPS

| SPEC NO. | LIST NO. | DESCRIPTION | | LOCATION | GLAZING STRIP |
|---|---|---|---|---|---|
| KS-14611 | 16 | Satin Finished Aluminum (List 3 Booth only) | | Side or Rear | B-685411-3 |
| | 18 | Tempered Glass | 7/32-in. thk | Door | B-179367-4 |
| | 75 | | 1/4-in. thk | | |
| KS-19580 | 10 | | 7/32-in. thk | Side or Rear | B-685410-3 |
| | 11 | | 1/4-in. thk | | |
| | 32 | Polished Aluminum (List 6 Booth only) | | | |
| | 93 | Porcelain Enamel | Blue | | B-685411-3 |
| | 94 | | Gray | | |
| | 95 | | Red | | |

## TABLE B

## SIGN PANELS AND GLAZING STRIPS

| SPEC NO. | LIST NO. | DESCRIPTION | | LOCATION | GLAZING STRIP |
|---|---|---|---|---|---|
| | | LETTERS | BACKGROUND | | |
| KS-14611 | 101 | White | Blue | Front | B-179367-1 |
| | 102 | Blue | White | | |
| | 105 | None | White | | |
| | 106 | None | Blue | | |
| | 103 | White | Blue | Rear and Sides | B-179367-2 |
| | 104 | Blue | White | | |
| | 107 | None | White | | |
| | 108 | None | Blue | | |
| | 35 | Solid Aluminum Blank | | | |

## TABLE C
## RETAINING STRIPS

| PART NO. | LOCATION | | REMARKS |
|---|---|---|---|
| B-185371 — | 1 | Door Panel, top | For Use in List 3 Booth |
| | 2 | Door Panel, either side | |
| | 3 | Door Panel, bottom | |
| | 4 | Side or Rear Panel, either side | |
| | 5 | Side or Rear Panel; Side or Rear Sign, top or bottom | |
| | 6 | Side or Rear Panel, locking strip | |
| | 7 | Side or Rear Sign, either side | |
| | 9 | Side or Rear Sign, locking strip | |
| | 10 | Front Sign, either side | |
| | 11 | Front Sign, top | |
| | 12 | Front Sign, locking strip | |
| | 13 | Front Sign, bottom | |
| B-185371 — | 21 | Door Panel, top | For Use in List 6 Booth |
| | 22 | Door Panel, either side | |
| | 23 | Door Panel, bottom | |
| | 24 | Side or Rear Panel, either side | |
| | 25 | Side or Rear Panel; Side or Rear Sign, top or bottom | |
| | 26 | Side or Rear Panel, locking strip | |
| | 27 | Side or Rear Sign, either side | |
| | 29 | Side or Rear Sign, locking strip | |
| | 30 | Front Sign, either side | |
| | 31 | Front Sign, top | |
| | 32 | Front Sign, locking strip | |
| | 33 | Front Sign, bottom | |

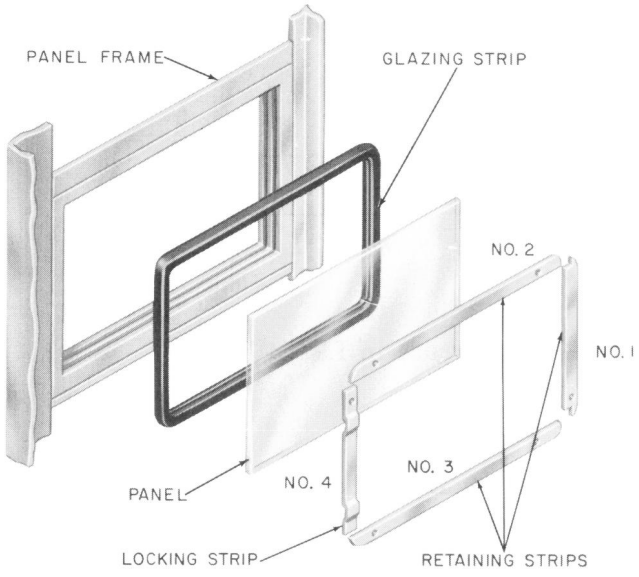


**Fig. 5—Assembly of Side or Rear Panels**

**6.03** Replace panels as follows:

(1) Remove No. 4 locking strip.

(2) Remove retaining strips No. 2 and 3.

(3) Remove retaining strip No. 1.

(4) Remove panel and rubber glazing strip.

(5) Apply rubber glazing strip to replacement panel.

(6) Insert panel into frame with the beaded edge of glazing strip on the outside.

(7) Replace retaining strips in sequence as shown in Fig. 5.

## BOTTOM PANELS

**6.04** Replace those panels which are broken or which will not meet company standards. Refer to Table D for available bottom panels.

**6.05** To remove panels, remove Phillips RH screws (eight for short panel and ten for solid or lovered panel).


***The rear bottom panels are equipped with a mounting bracket and leveling device.***

## 7. BOOTH LIGHTING


***For your safety, observe the following: Work operations on booth lighting equipment and electrical wiring should be limited to locations where power can be turned off at a switch or a plug can be removed. Wear eye protection when lowering ceiling and handling fluorescent lamps.***

**7.01** KS-14611 booths are equipped with KS-19207, List 4 light fixtures. Installation and maintenance of this type light fixture is covered in Division 508, section entitled: KS-19207 Light and Blower Unit, Identification, Installation, and Maintenance.

**7.02** When ballast shows signs of leaking compound, replace the complete KS-19207 unit.

**7.03** Earlier model KS-14611 booths were equipped with a B-185379 light fixture. If major repairs are required for maintenance, replace the B-185379 light fixture with a KS-19207, List 4 light fixture.

**7.04** Maintenance instructions for the B-185379 light fixture are covered below:


***Both ceiling lamps should be lighted when power is on, unless booth is equipped with a light control unit. For booths with a light control, refer to Division 508, section entitled: KS-19261 Light Controls, Identification, Installation, and Maintenance. For light failure in booths without light control proceed as follows:***

(1) Check that manual starter reset buttons are pushed in when this type starter is used. Allow 1 minute for lamps to light.

(2) If lamps fail to light remove lamp plug from ceiling receptacle, and test for power.

(3) (a) If power is off, check for intermediate switch.

**TABLE D**

**BOTTOM PANELS**

| SPEC NO. | LIST NO. | DESCRIPTION | | REMARKS |
|---|---|---|---|---|
| KS-14611 | 52 | Rear | Solid | For use in List 3 Booth |
| | 53 | Side | | |
| | 54 | Rear | Short | |
| | 55 | Side | | |
| KS-19580 | 38 | Side | Short | For use in List 6 Booth |
| | 39 | Rear | | |
| | 40 | Side | Solid | |
| | 41 | Rear | | |

(b) If power is present, replace lamp plug.

(4) If lamps fail to function, replace starters and allow 1 minute for lighting. Replace lamps that do not light. (Before discarding a starter, test in a good lamp fixture.)

(5) If lamps still fail to function, trouble may be due to low voltage (below 95 volts) or a defective fixture.

**7.05** Automatic cutoff thermal-type starters are also used with the KS-14611 booth lamps. Bimetallic contacts control starter operation. If starter fails to light the lamp, a cutoff contact will open the lamp circuit. Starter remains in this cutoff condition until power is turned off, allowing bimetallic cutoff contact to cool. Purpose of cutoff is to prevent ballast transformer from overheating.

**7.06** Starter cutoff usually occurs from the following:

(a) Low ac voltage or downward power surge (service interruptions, fluctuations, thunderstorms, etc) below operating range of lamp.

(b) Defective lamp (flickers when starting to light).

(c) Extremely low temperature at start. Gas in lamp does not ionize.

(d) High temperature, either at start, or while lamp is lighted. External heat combined with current flow operates bimetallic cutoff contact.

***Note:*** Remember, the lamp starting time is determined by the temperature present in conjunction with lamp condition and line voltage.

**7.07** Starter Selection (See Table E.)

(a) ***Automatic Reset*** starters will reset after going into cutoff when the power is turned off to allow the contacts to cool. Operating range at 118 volts is from 0 to 135° F.

(b) ***Manual Reset*** starters can be reset by pushing the reset button to render starter operative. Operating range at 118 volts is from 0 to 185° F.

***Note:*** Permanent damage to ballast transformer may result if the starter used is not correct for lamp wattage. TC-4 or TC-40 starters should not be used as a replacement for TC-12 or TC-120 starter.

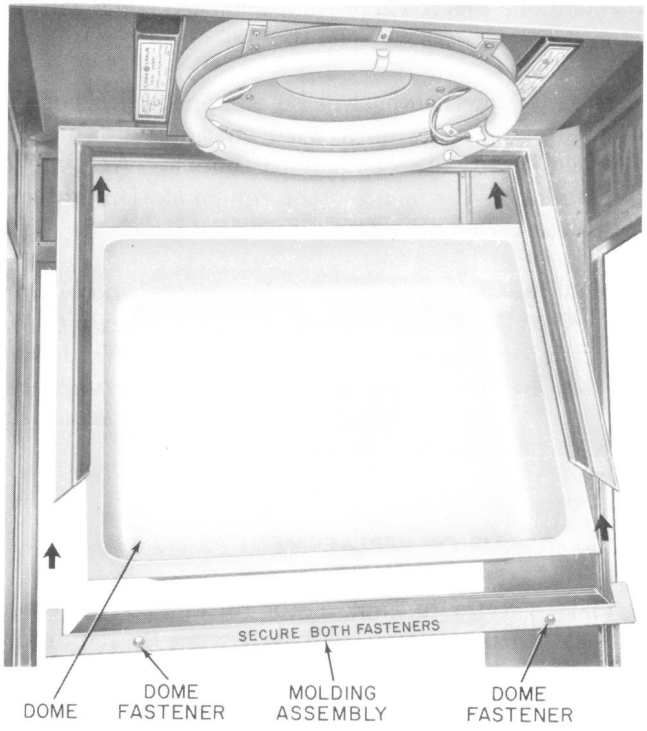


**Fig. 6—Installation of Dome**

## 8. LIGHT CONTROL UNIT

**8.01** Maintenance instructions for KS-19261 light control units are covered in Division 508, section entitled: KS-19261 Light Controls, Identification, Installation, and Maintenance.

## 9. DOME REPLACEMENT

**9.01** Replace defective dome as follows:

(1) Unlock dome fasteners and lower dome.

(2) Remove machine screws and moulding assembly.

(3) Remove defective dome and insert replacement as shown in Fig. 6.

(4) Replace and secure moulding assembly.

(5) ***Raise dome and secure in position by locking dome fasteners.***

## 10. DOME STOP

**10.01** This booth may be equipped with a KS-20224 dome stop.

**10.02** Dome stops which are damaged or broken should be replaced in accordance with Fig. 7.

## 11. SEAT ASSEMBLY

**11.01** Replace those seats (if present) which are broken or which will not meet company standards.

## 12. SHELF ASSEMBLIES AND APPARATUS BLANKS

**12.01** Replace those shelves and apparatus blanks which are broken or which will not meet company standards.

## 13. DIRECTORIES AND BINDERS

**13.01** Directory binder rods or hinge fasteners shall not be broken or distorted to the extent that directores are not held securely in the binder. Hinges shall not be so bent, burred, or distorted as to obstruct the free passage of hinge fasteners or prevent smooth operation of covers.

**13.02** Binder locking devices shall operate freely and lock securely. Adjustable backplates shall be in good condition.

**13.03** Ensure that a rubber bumper (B-685401) is in place on the directory rack to cushion the binder as it drops into the rack. Install a new bumper, if required as follows:

(a) Soften old adhesive with trichloroethane and remove.

(b) Install new bumper using 3M Company EC-880 adhesive or equivalent.

**TABLE E**

**LAMP AND STARTER CODES**

| WATTS | LAMP CODE* | STARTER CODE | |
|---|---|---|---|
| | | RESET | |
| | | AUTOMATIC | MANUAL |
| 32 | FC12T10 | TC-12 | TC-120 |
| 40 | FC16T10 | TC-4 | TC-40 |

* Lamp, fluorescent, 4-pin, standard, cool white.

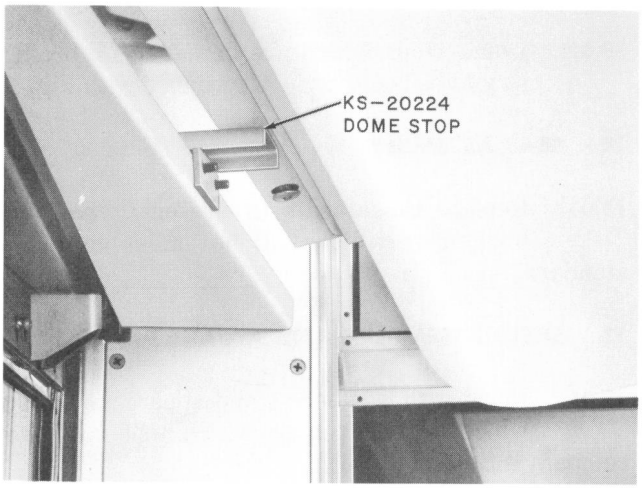


**Fig. 7—KS-20224 Dome Stop Installed**

## 14. FLOOR

**14.01** If a booth is equipped with an abrasive-clad floor, the finish can be restored with the use of Goodyear Griptred flooring and protective coating, dark gray 592-7005 or equivalent. This can be applied with an ordinary paint brush.

## 15. PROTECTOR GROUND

**15.01** When coverplate is removed, the station protector ground is removed. Under certain conditions this could present a hazard while working on protector, wiring, etc.

**15.02** New booths will be equipped with bonding wires at both wire entrances. One end will already be secured to booth. At time of installation, terminate other end on station protector ground terminal.


***When coverplate is removed and bonding strap is not present, place strap before proceeding with work. Use No. 14 wire from ground terminal of protector to screwhead of partition fastener separating the two wiring channels.***

## 16. REPAIR OR REPLACEMENT PARTS

**16.01** Refer to Table F for repair or replacement parts which are most commonly required.

## TABLE F

## REPAIR OR REPLACEMENT PARTS

| NAME | PART NUMBER | | REMARKS |
|---|---|---|---|
| | LIST 3 BOOTH | LIST 6 BOOTH | |
| Cover Assembly, Right Rear | B-185432 | B-185432-2 | Mounts coin collector |
| Cover Assembly, Right Rear Access | B-185443 | B-185443-2 | Includes a 123A1A protector |
| Cover, Right Rear Access | B-185375-1 | B-185375-3 | Does not mount protector |
| Cover, Left Front Access | B-179378 | B-179378-2 | Covers booth anchoring bracket on left front column |
| Door Assembly | B-179333 | B-179333-2 | Door includes left and right door frame assemblies, hinges, handle, door stop assembly, and adjustable stop assembly |
| Door Stop Assembly | B-176782 | | Component of door assembly |

TABLE F (Cont)

| NAME | PART NUMBER | | REMARKS |
|---|---|---|---|
| | LIST 3 BOOTH | LIST 6 BOOTH | |
| Door Frame Assembly, Left Side | B-181729 | B-181729-2 | Left frame of door assembly |
| Door Frame Assembly, Right Side | B-181728 | B-181728-2 | Right frame of door assembly |
| Roller, Nylon | B-561730 | | Mounts on pin of door stop assembly |
| Adjustable Stop Assembly | B-684748 | | Component of door assembly |
| Top Hinge Assembly | B-684745 | | Top center door hinge |
| Spring | B-684746 | | Component of top hinge assembly |

**TABLE F (Cont)**

| NAME | PART NUMBER | | REMARKS |
|---|---|---|---|
| | LIST 3 BOOTH | LIST 6 BOOTH | |
| Butt Hinge Assembly | B-650842 | | Door post hinge |
| Butt Hinge Assembly | B-684744 | | Center door hinge (middle and bottom positions) |
| Handle | B-684738 | | Door handle |
| Bumper | B-684714 | | Located on column of left side assembly |
| Bumper | B-685401 | | Located on directory rack |
| Dome | B-185369 | | Light dome |
| Track Assembly | B-178483 | | Consists of track, spring stop assembly, angle, and bumper |
| Track | B-185579 | | Component of track assembly |

TABLE F (Cont)

| NAME | PART NUMBER | | REMARKS |
|---|---|---|---|
| | LIST 3 BOOTH | LIST 6 BOOTH | |
| Angle | B-179424 | | Component of track assembly |
| Bumper | B-179473 | | Component of track assembly |
| Spring Stop Assembly | B-192543 | | Component of track assembly |
| Rod Assembly | B-192404 | | Component of spring stop assembly |
| Bracket | B-176686 | | Component of spring stop assembly |
| Spring | B-176687 | | Component of spring stop assembly |
| Collar | B-192403 | | Component of spring stop assembly |
| Angle | B-684710 | | Component of booth anchoring bracket |

**TABLE F (Cont)**

| NAME | PART NUMBER | | REMARKS |
|---|---|---|---|
| | LIST 3 BOOTH | LIST 6 BOOTH | |
| Nut | B-684712 | | Component of booth anchoring bracket |
| Bolt | B-684713-1 | | Component of booth anchoring bracket |
| Washer, Plain Cres, 5/16 std | Obtain locally | | Component of booth anchoring bracket |
| Washer, Plain Cres, 5/16 std | Obtain locally | | Component of booth anchoring bracket |
| Grommet | B-684716 | | Located at telephone wire entrance |
| Plug | Plastic Plug for Rear Assembly B-179324 | | Located at unused power entrance |
| Bracket | B-931522 | | Door repair bracket |