

## BOOTH-OUTDOOR

### KS-14611

## MAINTENANCE

### 1. GENERAL

1.01 This section is reissued to make text, illustrations, and tables compatible with latest issue of KS-14611 Specification. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

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 Detailed cleaning of the booths can be found in Section 770-170-308.

### 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

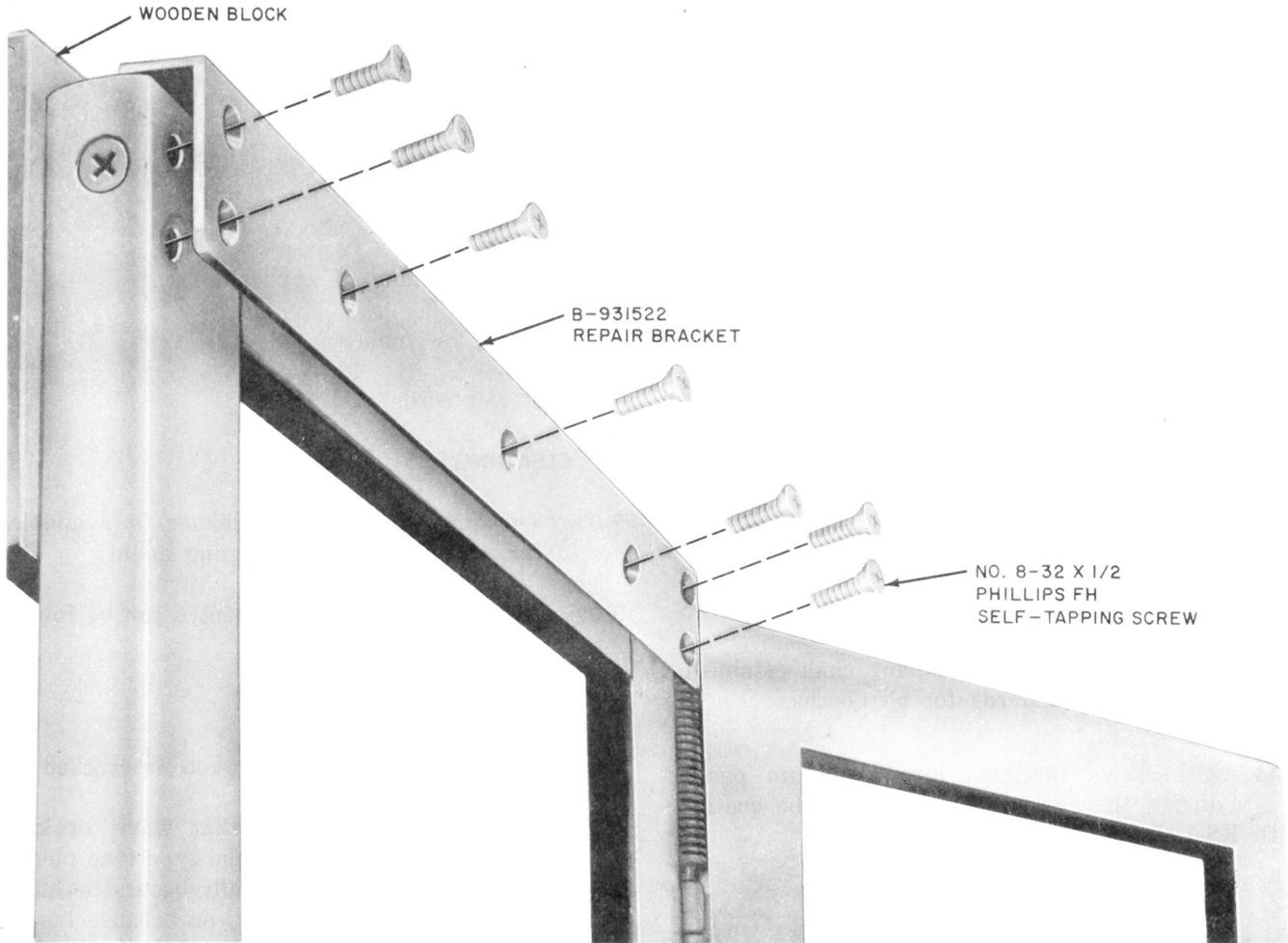


Fig. 1—Installation of Door Repair Bracket

be eliminated in cold weather, if desired. Adjust so that door closes without slamming (see 5.01).

- 4.04 When pushed closed from 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.

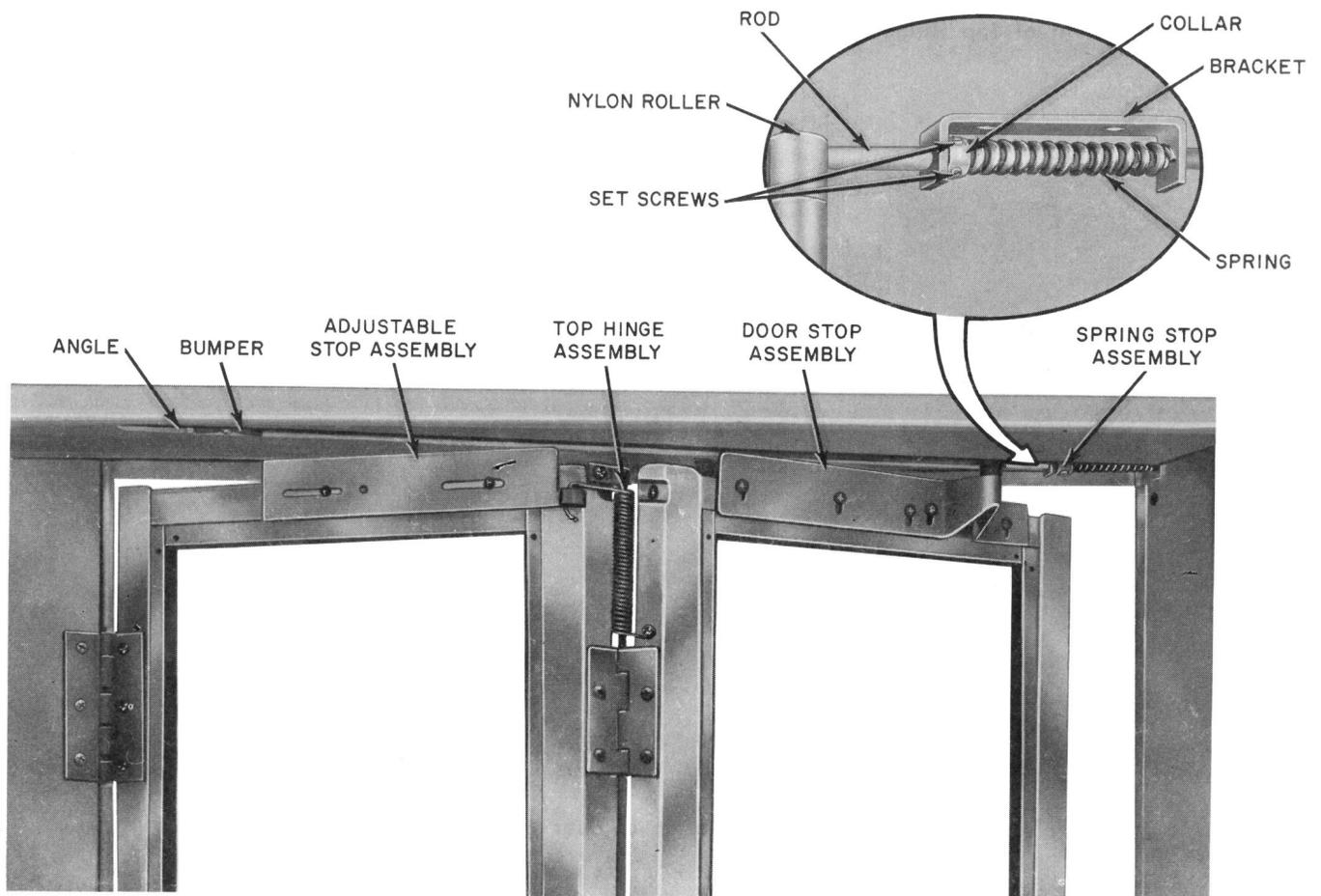


Fig. 2—KS-14611 Booth Door Adjustment

REMOVABLE SUPPORT  
DRILL HOLE 1/2 IN. DEEP.  
FASTEN WITH  
SELF TAPPING SCREW  
TYPE F, 8-32 X 1/2 IN.

INCREASE  
SPRING CLEARANCE  
ON BOTH DOORS.  
FILE OR SAND  
1/32 IN. DEEP  
X 3-7/8 IN. LONG.

DRILL 5/32 IN. HOLE  
1/2 IN. DEEP.  
FASTEN WITH  
SELF TAPPING SCREW  
TYPE F, 8-32 X 5/8 IN.

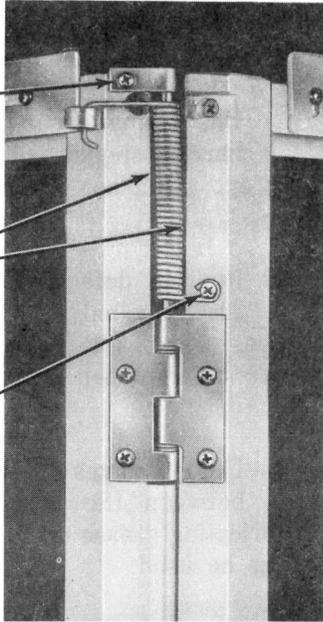


Fig. 3—Installation of Top Hinge Assembly

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.

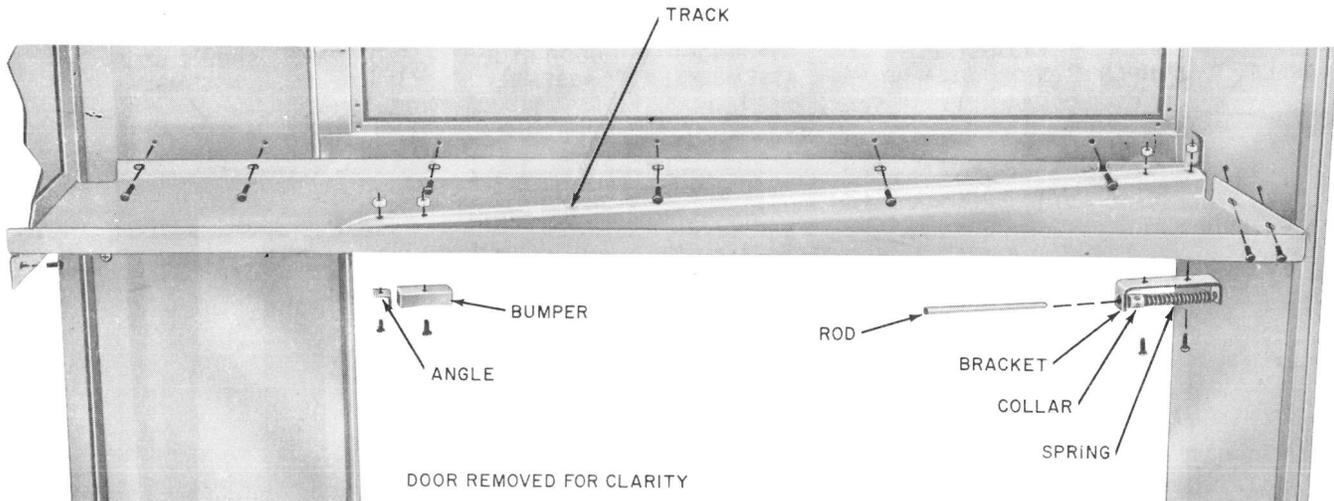


Fig. 4—Installation of Door Track

**TABLE A**  
**DOOR, SIDE, AND REAR PANELS**  
**AND GLAZING STRIPS**

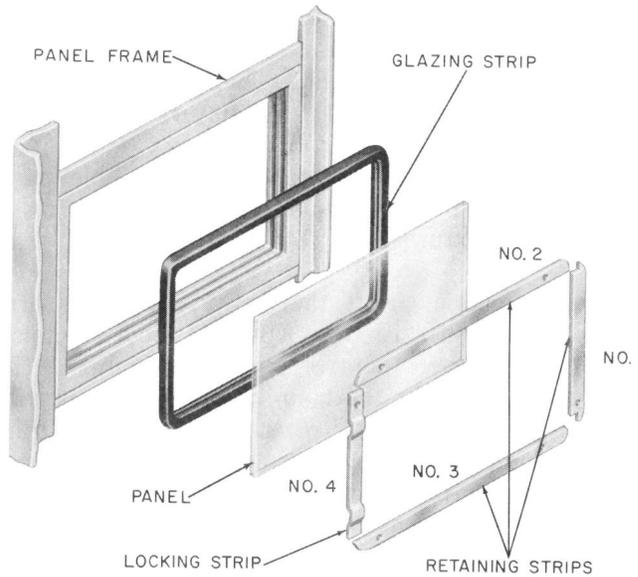
SPEC NO.	LIST NO.	DESCRIPTION		LOCATION	GLAZING STRIP
KS-14611	16	Satin Finished Aluminum (List 3 Booth only)		Side or Rear	B-685411-3
	18	Tempered Glass	7/32-in. thk	Door	B-179367-4
	75		1/4-in. thk		
KS-19580	10	Tempered Glass	7/32-in. thk	Side or Rear	B-685410-3
	11		1/4-in. thk		
	32	Polished Aluminum (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 —	
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 local telephone 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 loved panel).

**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		



*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 Section 508-820-100.

**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. Conversion information is covered in Section 508-820-100.

**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 Section 508-825-100. 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.
- (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.)

**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.

- (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.

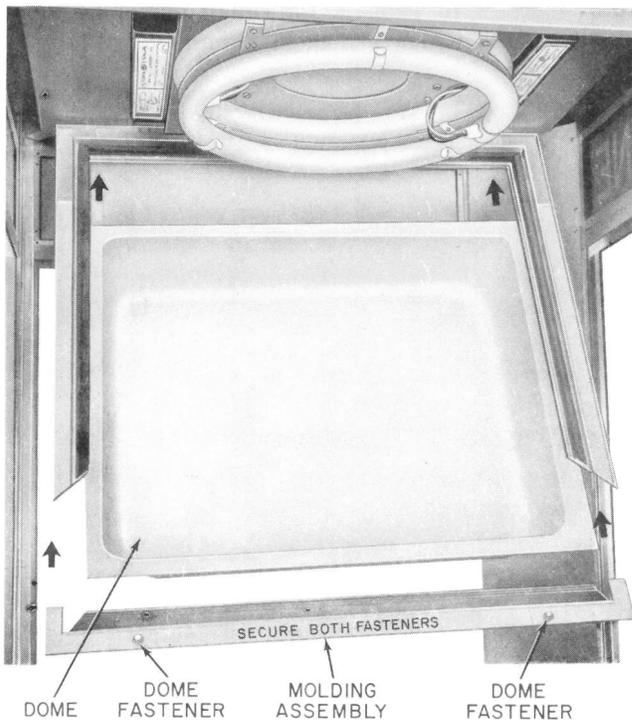
**8. LIGHT CONTROL UNIT**

**8.01** Maintenance instructions for KS-19261 light control units are covered in Section 508-825-100.

**9. DOME REPLACEMENT**

**9.01** Replace defective dome as follows:

- (1) Unlock dome fasteners and lower dome.
- (2) Remove machine screws and moulding assembly.



**Fig. 6—Installation of Dome**

- (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.

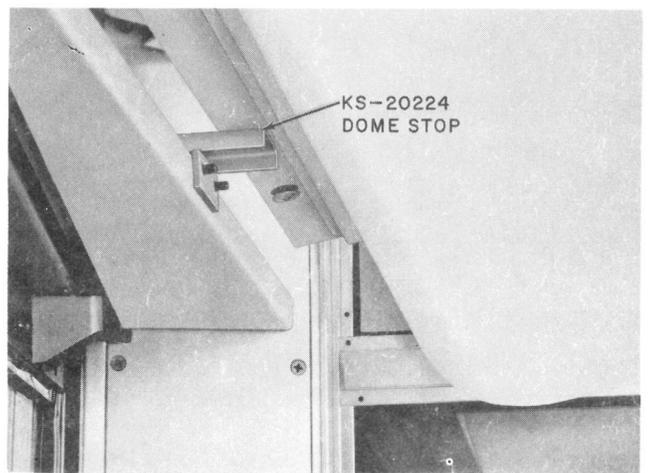
**10.02** Dome stops which are damaged or broken should be replaced in accordance with Fig. 7.

**11. SEAT ASSEMBLY**

**11.01** Replace those seats (if present) which are broken or which will not meet local telephone company standards. Refer to Section 508-352-200 for installation procedures.

**12. SHELF ASSEMBLIES AND APPARATUS BLANKS**

**12.01** Replace those shelves and apparatus blanks which are broken or which will not meet local telephone company standards. Refer to Section 508-352-200 for installation procedures.



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

**13. DIRECTORIES AND BINDERS**

**13.01** Directory binder rods or hinge fasteners shall not be broken or distorted to the extent that directories 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.

**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**

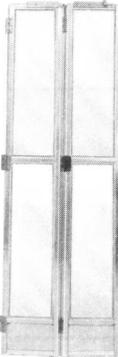
PART	NAME	PART NUMBER		DESCRIPTION
		LIST 3 BOOTH	LIST 6 BOOTH	
	Cover Assembly, Right Rear	B-185432	B-185432-2	Mounts coin collector
	Cover Assembly, Right Rear Access	B-185443	B-185443-2	Includes a 123A1A protector
	Cover, Right Rear Access	B-185375-1	B-185375-3	Does not mount protector
	Cover, Left 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)

PART	NAME	PART NUMBER		DESCRIPTION
		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	P-12A332		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)

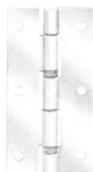
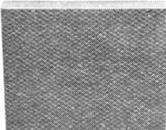
PART	NAME	PART NUMBER		DESCRIPTION
		LIST 3 BOOTH	LIST 6 BOOTH	
	Butt Hinge Assembly		B-650842	Door post hinge
	Butt Hinge Assembly		B-684744	Center door hinge (middle and bottom positions)
	Handle		B-684738	Door handle
	Bumper		B-684714	Located on column of left side assembly
	Bumper		B-685401	Located 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)

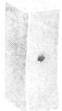
PART	NAME	PART NUMBER		DESCRIPTION
		LIST 3 BOOTH	LIST 6 BOOTH	
	Angle	B-179424		Component of track assembly
	Bumper	B-179473		Component of track assembly
	Spring Stop Assembly	B-192543		Component of track assembly
	Rod Assembly	B-192404		Component of spring stop assembly
	Bracket	B-176686		Component 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)

PART	NAME	PART NUMBER		DESCRIPTION
		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