KS-20030 DIRECTORY HANGERS
IDENTIFICATION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.01 The KS-20030 directory hangers (Fig. 1 and 2) are universal hangers designed for use with various coin telephone booths and shelves.

1.02 This section is reissued to:

- Add KS-20030, Lists 10, 11, 12, and 13 directory hangers
- Add minor changes to text
- Add information to Table A.

1.03 It is intended that the Lists 1, 2, 3, 5, and 6 hangers be used in semiprotected locations.

2. IDENTIFICATION

2.01 List numbers have been assigned to the directory hangers as described in Table A.

2.02 The hangers consist of a stainless steel mechanism that permits rotation of a directory and cover assembly in both horizontal and vertical planes.

2.03 Each hanger supports the directory, below and parallel to the front edge of a shelf (Fig. 3 through 8).

2.04 Springs are provided to act as detents when access is acquired and will return the directory to normal position when rotated manually out of the detent area.

2.05 The vertical motion, subsequent to the horizontal rotation permits the directory to be raised to rest on the shelf for access (Fig. 9 through 12).

ORDERING INFORMATION

2.06 Orders shall specify the quantity, KS number, and list number.

3. INSTALLATION

Note: 10-32 by 3/8 SEMS Phillips RHM screws (security screws L-765065, List 3 and 10-32 nylon insert hex head nuts on List 10) are furnished with each hanger for securing it to the shelf.

3.01 Refer to Table A for use of each hanger.

3.02 Current model booths and shelves are equipped with writing shelves designed to accept the KS-20030 directory hangers.

KS-14611 and KS-19580 Booths

Note: Early model must be modified as follows:

3.03 Remove all existing writing shelves, directory racks, and apparatus blanks. Retain hardware.

3.04 Install KS-19580, List 29 shelf assembly using hardware retained.

3.05 Secure the List 1 or 2 directory hanger to the shelf assembly.

KS-16797 and KS-19425 Booths

Note: Early model must be modified as follows:

3.06 Repeat 3.03.

3.07 Install KS-19425, List 27 shelf assembly using hardware retained.

3.08 Secure the List 3 directory hanger to the shelf assembly using retained hardware.
**LEGEND**

1- NO. 10-32 X 3/8 IN. PHILLIPS RH SCREW WITH NYLON INSERT (PART OF DIRECTORY ASSEMBLY)

2- SINGLE HANGER ASSEMBLY
   8-697874-1 FOR LIST 1 DIRECTORY HANGER
   8-697874-2 FOR LIST 3 DIRECTORY HANGER
   8-697874-3 FOR LIST 5 DIRECTORY HANGER
   8-697874-4 FOR LIST 6 DIRECTORY HANGER

3- 1/2-13 HEX NUT

4- NO. 10-32 X 3/8 IN. SEMS PHILLIPS RH SCREW

5- B-697647 BUMPER

6- B-698340 BUMPER HOLDER

7- DIRECTORY ASSEMBLY
   KS-20030, L7 FOR LIST 1 AND LIST 3 DIRECTORY HANGERS
   KS-20030, L8 FOR LIST 5 AND LIST 6 DIRECTORY HANGERS

8- KS-19426, L42 (CLOSED-END COVER) FOR LIST II AND LIST 13 DIRECTORY HANGERS

9- B-563039 LINK (PART OF DIRECTORY ASSEMBLY)

10- B-563043 HANGER PIN (PART OF DIRECTORY ASSEMBLY)

11- B-684956 COVER (PART OF DIRECTORY ASSEMBLY)

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**Fig. 1—KS-20030 Directory Hanger (Typical for Single Binder)**

**KS-19267 Shelf**

**Note:** Early model must be modified as follows:

**3.09** Remove the KS-19267, List 11 directory rack per Fig. 13 or the KS-19267, List 13 cover assembly per Fig. 14.

**3.10** If present, remove subset and subset mounting bracket per Fig. 15.

**3.11** Remove writing shelf from frame of shelf assembly per Fig. 16.

**3.12** Mount KS-19267, List 14 mounting bracket (Fig. 17) temporarily and secure it at the left front with one 8-32 by 7/16 RHM screw.
3.13 Using the mounting bracket as a template, mark the location for drilling a second hole on the front cross rail and three holes (Fig. 18) on the rear cross rail.

3.14 Remove the screw and mounting bracket.

3.15 Using No. 25 drill, drill the hole marked on the front cross rail.

3.16 Using a No. 17 drill, drill the holes marked on the rear cross rail.

3.17 Install KS-19267, List 14 mounting bracket and secure with one 8-32 by 7-16 RHM screw, one 8-32 by 7/16 RH self-tapping screw, and three 10-32 by 1/2 RH self-tapping screws. Screws are furnished with mounting bracket.
### TABLE A

**KS-20030 DIRECTORY HANGERS**

<table>
<thead>
<tr>
<th>LIST NO.</th>
<th>DESCRIPTION</th>
<th>DIRECTION OF ROTATION</th>
<th>DEGREE OF ROTATION</th>
<th>USED WITH</th>
<th>FIG. REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single Binder will accept a directory up to 4 inches thick</td>
<td>Counter-clockwise</td>
<td></td>
<td>KS-19267 Shelf</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Two Single Binders each will accept a directory up to 4 inches thick</td>
<td>Counter-clockwise</td>
<td>90°</td>
<td>KS-14611 Booth</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Clockwise</td>
<td></td>
<td>KS-16797 Booth</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>KS-19425 Booth</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Same as List 1</td>
<td>Clockwise</td>
<td>60°</td>
<td>KS-20194, List 1 Shelf</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Counter-clockwise</td>
<td></td>
<td>KS-20194, List 2 Shelf</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Directory Assembly — can be ordered as a replacement part</td>
<td>Not applicable</td>
<td></td>
<td>KS-20030, List 1</td>
<td>1 and 2</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td>KS-20030, List 5</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td>KS-20030, List 6</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Same as List 13 with mounting plate</td>
<td>Clockwise</td>
<td></td>
<td>KS-20842, List 30 Shelf</td>
<td>7</td>
</tr>
<tr>
<td>11</td>
<td>Same as List 1 except with KS-19426, List 42 closed-end cover</td>
<td>Counter-clockwise</td>
<td></td>
<td>KS-20842, List 32 Housing</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Same as List 2 except with 2 KS-19426, List 42 closed-end covers</td>
<td>Clockwise</td>
<td>90°</td>
<td>KS-20842, List 32 Housing</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Same as List 3 except with KS-19426, List 42 closed-end cover</td>
<td>Clockwise</td>
<td></td>
<td>KS-20842, List 32 Housing</td>
<td></td>
</tr>
</tbody>
</table>

3.18 If subset was removed in 3.10, perform following operations:

1. Place flange of KS-19267, List 15 subset mounting bracket (Fig. 19) on edge of right-hand curved column and secure to List 14 mounting bracket using two 8-32 by 5/16 RHM screws, two No. 8 lockwashers, and two 8-32 hex nuts (Fig. 20). Hardware is furnished with List 15 bracket.
2. Install subset on mounting bracket.

3.19 Install writing shelf per Fig. 16.
3.20 Install List 1 or List 2 directory hanger to shelf assembly.

KS-20842 TELEPHONE MOUNTINGS

KS-20842, List 30 Shelf (4 studs)

3.21 Secure the List 10 directory hanger to the shelf assembly using five 10-32 by 3/8 SEMS Phillips RHM screws furnished with hanger.

KS-20842, List 31 Housing (Walk-Up)

3.22 Secure the List 10 directory hanger to the housing using four L-765065-3 FH security screws and four Nylon insert hex nuts furnished with hanger.

KS-20842, List 32 Housing (Walk-In)

3.23 Secure the List 11, 12, or 13 directory hanger to the housing using 10-32 by 3/8 SEMS Phillips RHM screws furnished with hanger.

Note: Install directories in hangers using same method shown in Section 508-710-101. There are 5 rods in each KS-20030 hanger.

4. MAINTENANCE

4.01 Maintenance of the KS-20030 directory hangers consists of replacing broken or damaged parts and lubricating bearings with KS-19589 lubricant. Refer to Fig. 1 and 2 for replacement parts.
Fig. 7—KS-20030, List 10 Directory Hanger Mounted on KS-20842, List 31 Housing (Walk-Up)
Fig. 8—KS-20030, List 13 Directory Hanger Mounted on KS-20842, List 32 Housing (Walk-In)
Fig. 9—KS-20030, List 1 Directory Hanger Rotated 90°

Fig. 10—KS-20030, List 1 Directory Hanger in Reading Position

Fig. 11—KS-20030, List 2 Directory Hanger Rotated 90°

Fig. 12—KS-20030, List 2 Directory Hanger in Reading Position
Fig. 13—Assembly of KS-19267, List 11 Directory Rack

Fig. 14—Assembly of KS-19267, List 13 Cover Assembly
Fig. 16—Assembly of Writing Shelf

Fig. 17—Locating KS-19267, List 14 Mounting Bracket

Fig. 15—Assembly of KS-19267, List 12 Subset Mounting Bracket
Fig. 18—Installation of KS-19267, List 14 Mounting Bracket

Fig. 19—KS-19267, List 15 Subset Mounting Bracket

Fig. 20—Installation of KS-19267, List 15 Subset Mounting Bracket