

## PIECE-PART DATA AND REPLACEMENT PROCEDURES

### KS-15673 FLUORESCENT LIGHTING FIXTURES

#### FRAME AND AISLE LIGHTING

##### 1. GENERAL

**1.01** This section covers the information necessary for ordering parts to be used in the maintenance of the KS-15673 fluorescent lighting fixtures for frame and aisle lighting. It also covers approved procedures for replacing these parts.

**1.02** Part 2 of this section covers the piece-part numbers and the corresponding names of the parts which it is practicable to replace in the field in the maintenance of the above apparatus. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Piece-part Data.

**1.03** Part 3 of this section covers the approved procedures for the replacement of the parts covered in Part 2. This information is called Replacement Procedures.

##### 2. PIECE-PART DATA

**2.01** The figures included in this part show the replaceable parts in their proper relation to the other parts of the apparatus. The part numbers of the various parts are given together with the names listed by the Western Electric Company Merchandise Department. When these names differ from those in general use in the field, the latter names, in some instances, are shown in parentheses.

**2.02** When ordering parts for replacement purposes, give the part number, the name of the part, and the manufacturer, and state that the part is for the KS-15673 fluorescent lighting fixture. For example: "C551.03 Channel, Day-Brite Lighting, Inc., for the KS-15673 Fluorescent Lighting Fixture." The part numbers and names specified in this section, are names of parts assigned by the manufacturer. Do not refer to the BSP number or to any information shown in parentheses.

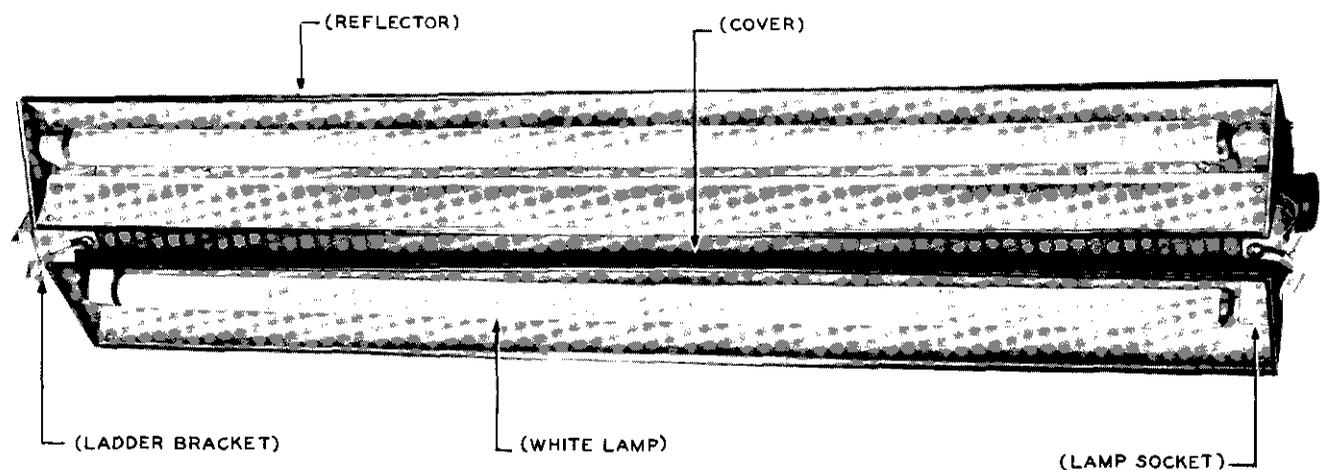


Fig. 1 — KS-15673 Assembly

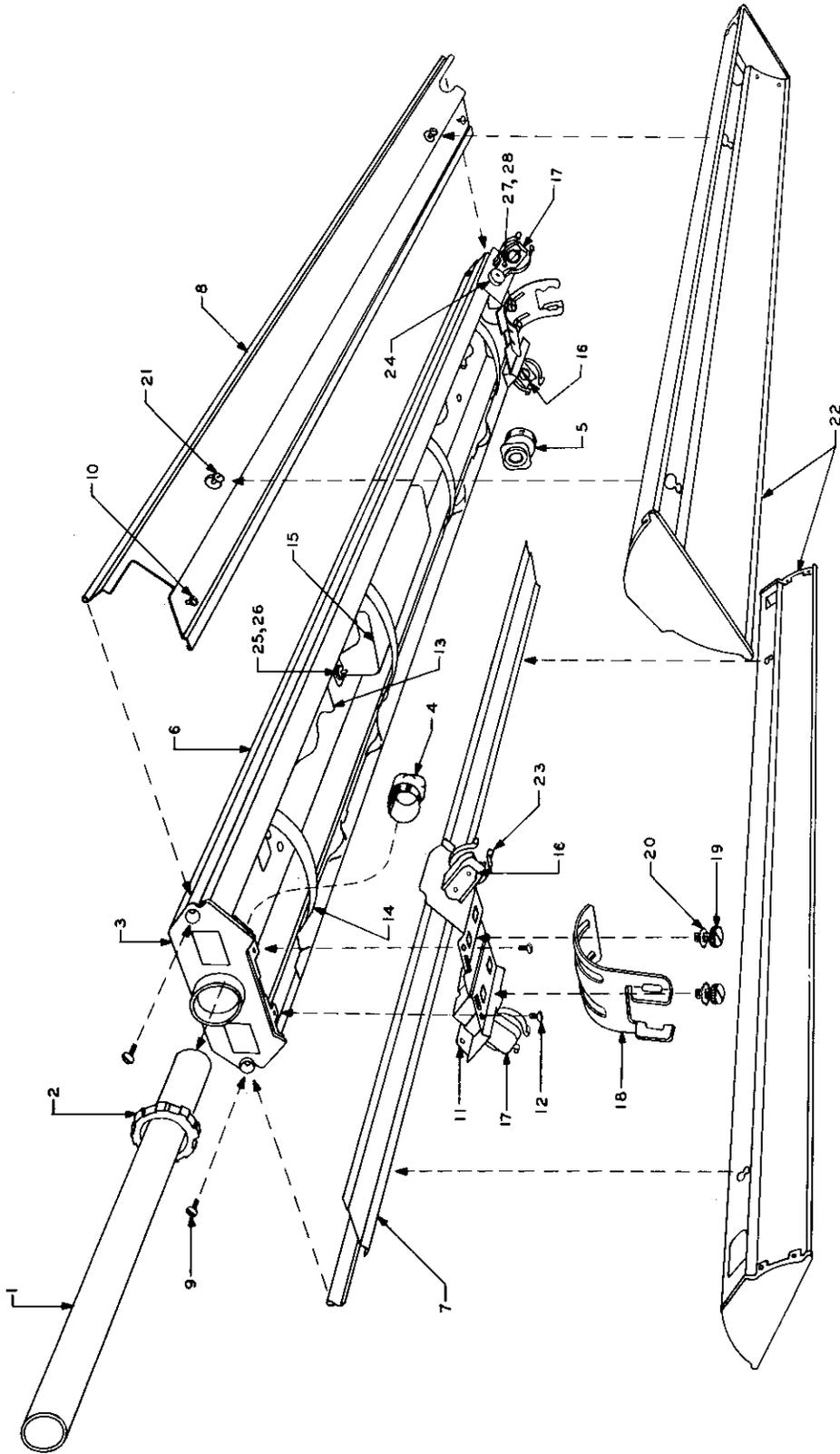


Fig. 2 - KS-15673, List 1 Fixture

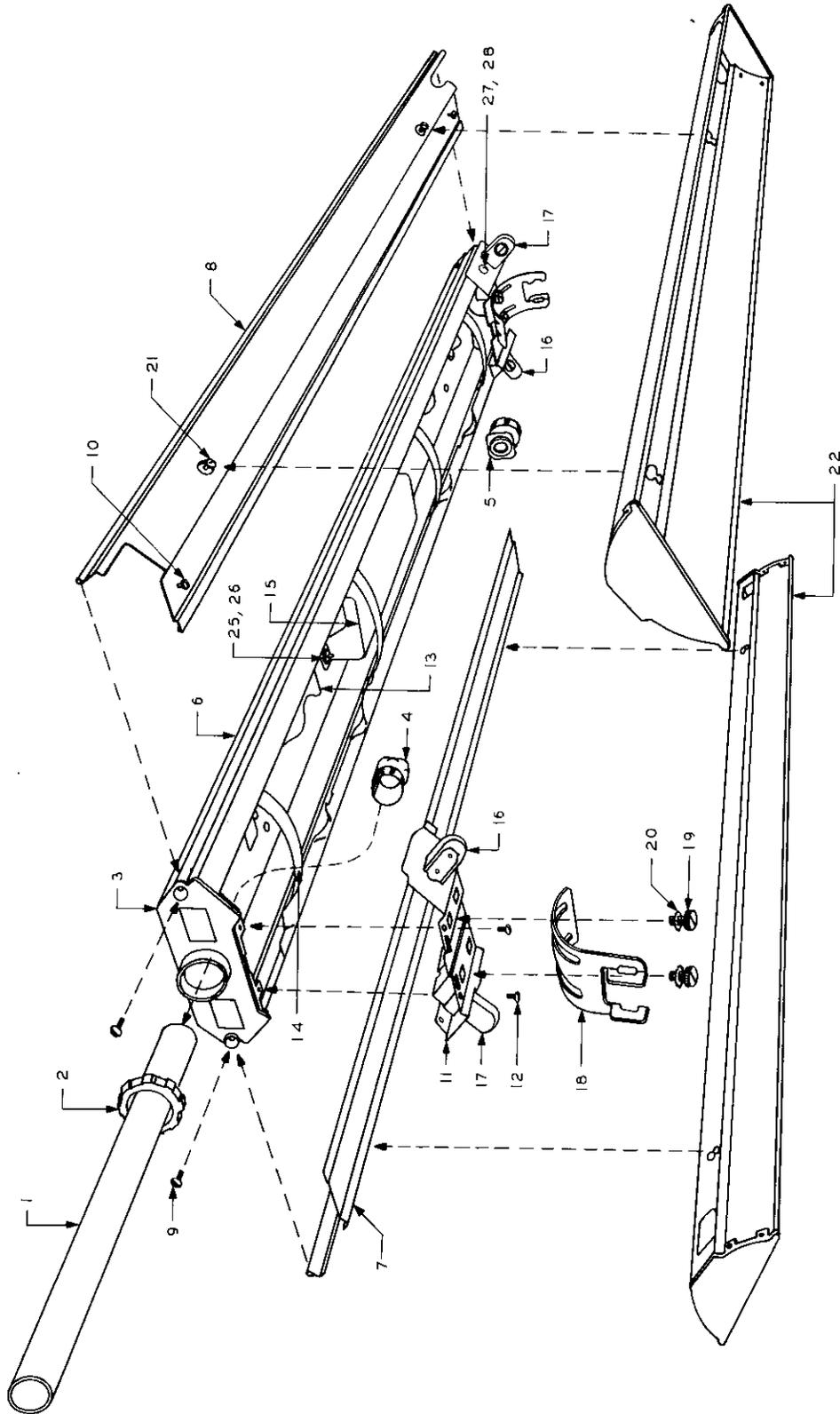


Fig. 3 - KS-15673, List 3 Fixture

SECTION A509.956  
SECTION H51.398

TABLE A — ITEM NUMBERS, NAMES, AND CATALOG NUMBERS — 4-FOOT UNITS

| ITEM | CURTIS LIGHTING, INC. |    |          | DAY-BRITE LIGHTING, INC |    |               | DESCRIPTION      |
|------|-----------------------|----|----------|-------------------------|----|---------------|------------------|
|      | KS-15673              |    | Cat. No. | KS-15673                |    | Cat. No.      |                  |
| No.  | L1                    | L3 |          | L1                      | L3 |               |                  |
| 1    | ✓                     | ✓  | 53116    | ✓                       | ✓  | UM209         | Connector        |
| 2    | ✓                     | ✓  | 53132    | ✓                       | ✓  | UM205         | Locknut          |
| 3    | ✓                     | ✓  | 53117    | ✓                       | ✓  | UM204         | Channel End      |
| 4    | ✓                     | ✓  | 53134    | ✓                       | ✓  | UM206X        | Fitting          |
| 5    | ✓                     | ✓  | 53133    | ✓                       | ✓  | UM206Y        | Fitting          |
| 6    | ✓                     | ✓  | 53103    | ✓                       | ✓  | C551.03       | Channel          |
| 7    | ✓                     | ✓  | 53110A   | ✓                       | ✓  | C550.09       | Cover, Plain     |
| 8    | ✓                     | ✓  | 53105A   | ✓                       | ✓  | C550.13       | Cover, Latch     |
| 9    | ✓                     | ✓  | B580     | ✓                       | ✓  | ZS276         | Screw, Pivot     |
| 10   | ✓                     | ✓  | X53123   | ✓                       | ✓  | ZT243         | Screw, Latch     |
| 11   | ✓                     | —  | 53106    | ✓                       | —  | S550.09       | Socket, Saddle   |
|      | —                     | ✓  | 53794    | —                       | ✓  | S550.13       |                  |
| 12   | ✓                     | ✓  | B587     | ✓                       | ✓  | ZS222         | Screw            |
| 13   | ✓                     | ✓  | 53115    | ✓                       | ✓  | S554.07       | Stop Bracket     |
| 14   | ✓                     | ✓  | 53118    | ✓                       | ✓  | UM203         | Wire Retainer    |
| 15   | ✓                     | —  | 8747     | ✓                       | —  | GE Co 6G1000  | Ballast          |
|      | —                     | ✓  | 8796     | —                       | ✓  | GE Co 89G545  |                  |
| 16   | ✓                     | —  | 10693    | ✓                       | —  | GE Co 78X491N | Socket           |
|      | —                     | ✓  | 10645    | —                       | ✓  | GE Co 505X85  |                  |
| 17   | ✓                     | —  | 10694    | ✓                       | —  | GE Co 78X736N | Socket           |
|      | —                     | ✓  | 10644    | —                       | ✓  | GE Co 505X84  |                  |
| 18   | ✓                     | ✓  | 53113    | ✓                       | ✓  | B551.11       | Bracket, Fixture |
| 19   | ✓                     | ✓  | X53122   | ✓                       | ✓  | ZT242         | Screw, Thumb     |
| 20   | ✓                     | ✓  | B1341    | ✓                       | ✓  | ZW228         | Lockwasher       |
| 21   | ✓                     | ✓  | B585     | ✓                       | ✓  | ZS4           | Screw            |
| 22   | ✓                     | ✓  | 53108    | ✓                       | ✓  | R551.19       | Reflector        |
| 23   | ✓                     | —  | 53119    | ✓                       | —  | UM197         | Lamp Guard       |
| 24   | ✓                     | —  | 10887    | ✓                       | —  | GE Co FS400   | Starter          |
| 25   | ✓                     | ✓  | B872     | ✓                       | ✓  | ZN216         | Nut              |
| 26   | ✓                     | ✓  | B121     | ✓                       | ✓  | ZB221         | Bolt             |
| 27   | ✓                     | —  | B584     | ✓                       | ✓  | ZS157         | Screw            |
|      | —                     | ✓  | B640     |                         |    |               |                  |
| 28   | ✓                     | —  | B815     | ✓                       | ✓  | ZN212         | Nut              |
|      | —                     | ✓  | B817     |                         |    |               |                  |

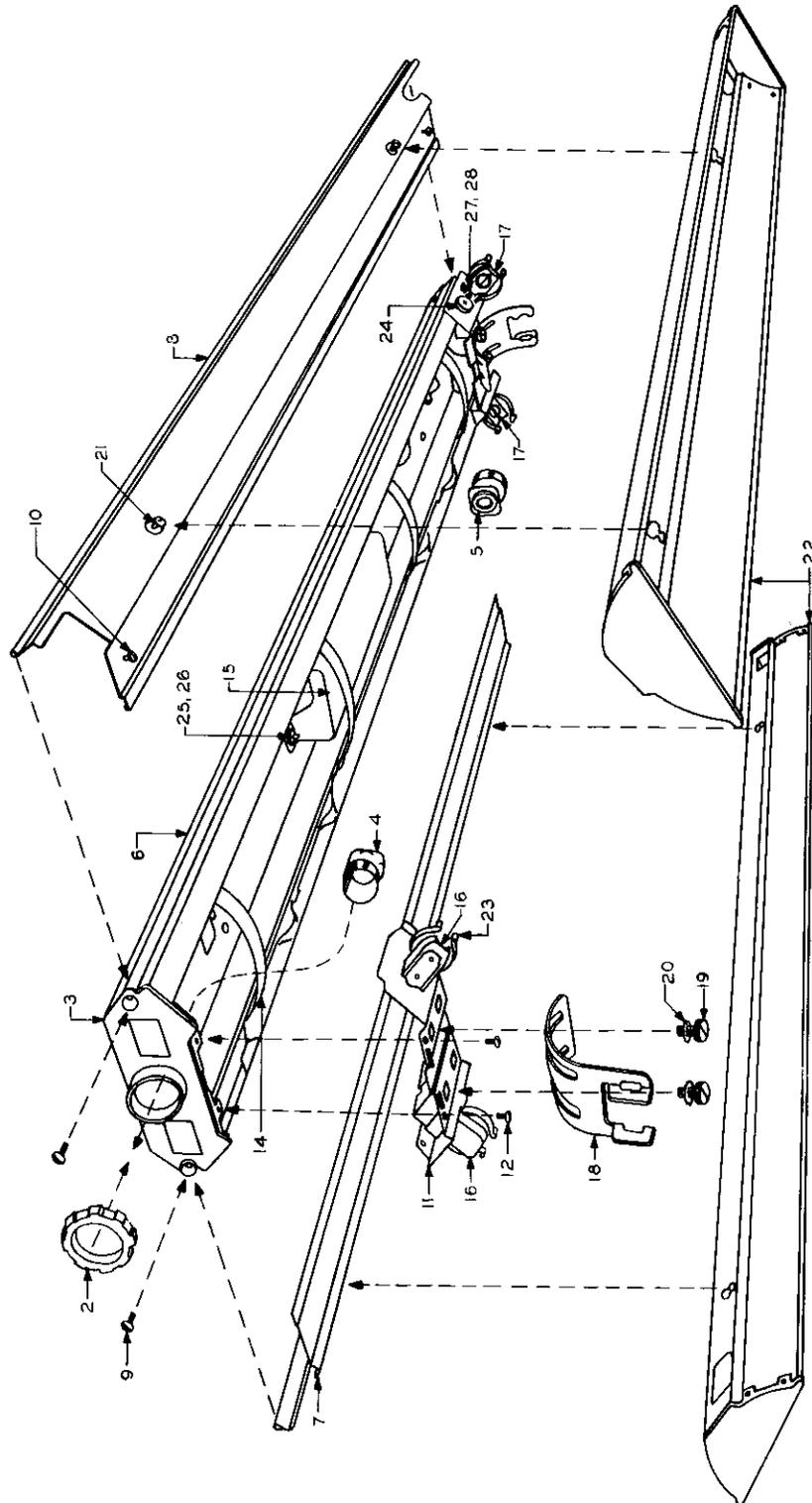


Fig. 4 — KS-15673, List 2 Fixture

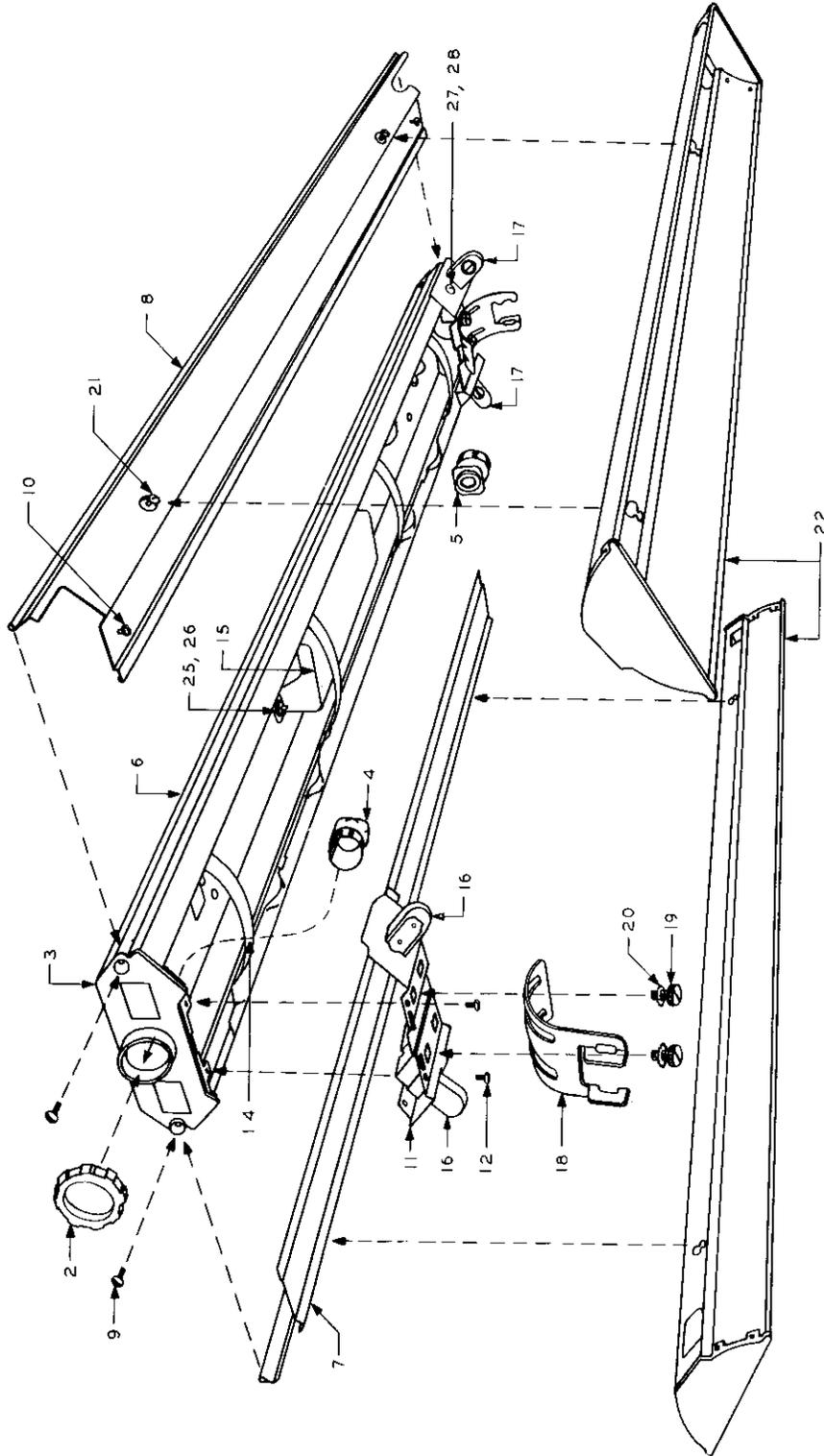


Fig. 5 - KS-15673, List 4 Fixture

TABLE B—ITEM NUMBERS, NAMES, AND CATALOG NUMBERS—2-FOOT UNITS

| ITEM | CURTIS LIGHTING, INC. |          |        | DAY-BRITE LIGHTING, INC |          |                           | DESCRIPTION      |
|------|-----------------------|----------|--------|-------------------------|----------|---------------------------|------------------|
|      | No.                   | KS-15673 |        | Cat. No.                | KS-15673 |                           |                  |
| L2   |                       | L4       | L2     |                         | L4       |                           |                  |
| 1    | —                     | —        | —      | —                       | —        | —                         | —                |
| 2    | ✓                     | ✓        | 53132  | ✓                       | ✓        | UM205                     | Locknut          |
| 3    | ✓                     | ✓        | 53117  | ✓                       | ✓        | UM204                     | Channel End      |
| 4    | ✓                     | ✓        | 53133  | ✓                       | ✓        | UM206Y                    | Fitting          |
| 5    | ✓                     | ✓        | 53133  | ✓                       | ✓        | UM206Y                    | Fitting          |
| 6    | ✓                     | ✓        | 53102  | ✓                       | ✓        | C551.01                   | Channel          |
| 7    | ✓                     | ✓        | 53109A | ✓                       | ✓        | C550.07                   | Cover, Plain     |
| 8    | ✓                     | ✓        | 53104A | ✓                       | ✓        | C550.11                   | Cover, Latch     |
| 9    | ✓                     | ✓        | B580   | ✓                       | ✓        | ZS276                     | Screw, Pivot     |
| 10   | ✓                     | ✓        | X53123 | ✓                       | ✓        | ZT243                     | Screw, Latch     |
| 11   | ✓                     | —        | 53106  | ✓                       | —        | S550.09                   | Socket, Saddle   |
|      | —                     | ✓        | 53794  | —                       | ✓        | S550.13                   |                  |
| 12   | ✓                     | ✓        | B-587  | ✓                       | ✓        | ZS222                     | Screw            |
| 13   | —                     | —        | —      | —                       | —        | —                         | —                |
| 14   | ✓                     | ✓        | 53118  | ✓                       | ✓        | UM203                     | Wire Retainer    |
| 15   | ✓                     | —        | 8721   | ✓                       | —        | GE Co 89G429              | Ballast          |
|      | —                     | ✓        | 8850   | —                       | ✓        | GE Co 89G667              |                  |
| 16   | ✓                     | —        | 10693  | ✓                       | —        | GE Co 78X491N             | Socket           |
|      | —                     | ✓        | 10645  | —                       | ✓        | GE Co 505X85              |                  |
| 17   | ✓                     | —        | 10694  | ✓                       | —        | GE Co 78X736N             | Socket           |
|      | —                     | ✓        | 10644  | —                       | ✓        | GE Co 505X84              |                  |
| 18   | ✓                     | ✓        | 53113  | ✓                       | ✓        | B551.11                   | Bracket, Fixture |
| 19   | ✓                     | ✓        | X53122 | ✓                       | ✓        | ZT242                     | Screw, Thumb     |
| 20   | ✓                     | ✓        | B1341  | ✓                       | ✓        | ZW228                     | Lockwasher       |
| 21   | ✓                     | ✓        | B585   | ✓                       | ✓        | ZS4                       | Screw            |
| 22   | ✓                     | ✓        | 53107  | ✓                       | ✓        | R551.17                   | Reflector        |
| 23   | ✓                     | —        | 53119  | ✓                       | —        | UM197                     | Lamp Guard       |
| 24   | ✓                     | —        | 10622  | ✓                       | —        | GE Co FS20<br>Bryant FS20 | Starter          |
| 25   | ✓                     | ✓        | B872   | ✓                       | ✓        | ZN216                     | Nut              |
| 26   | ✓                     | ✓        | B121   | ✓                       | ✓        | ZB221                     | Bolt             |
| 27   | ✓                     | —        | B584   | ✓                       | ✓        | ZS157                     | Screw            |
|      | —                     | ✓        | B640   | ✓                       | ✓        |                           |                  |
| 28   | ✓                     | —        | B815   | ✓                       | ✓        | ZN212                     | Nut              |
|      | —                     | ✓        | B817   | ✓                       | ✓        |                           |                  |

### 3. REPLACEMENT PROCEDURES

#### 3.01 List of Tools

| CODE OR SPEC. NO. | DESCRIPTION                            |
|-------------------|--|
| <b>TOOLS</b>      |  |
| 102               | 3/8-inch Hex. Single-end Socket Wrench |
| R-1542            | 6-inch Adjustable Wrench               |
| R-1539            | Pipe Wrench                            |
| —                 | 8-inch P-side-cutting Pliers           |
| —                 | 4-inch Regular Screwdriver             |

**3.02** Before making any replacements except the lamps or starters, disconnect the unit from the source of power.

**3.03** No replacement procedures are specified for screws or other parts where the procedure consists of a simple operation.

#### 3.04 Lamps

(1) *Caution: The material coating the inside of fluorescent lamps manufactured prior to 1949 contained beryllium which is harmful if introduced into open cuts. Report even minor accidents involving fluorescent lamps containing beryllium to the medical department. However, the following safety precautions should be taken when replacing any fluorescent lamps.*

(a) Protect fluorescent lamps against accidental breakage at all times. Danger to personnel exists in:

1. Cuts from flying or broken glass.
2. Beryllium poisoning from the coating used to line the interior of some fluorescent lamps.

3. Mercury vapor poisoning.

(b) Store new fluorescent lamps in protective cartons.

(c) Should a fluorescent lamp be broken leave the area until dust has settled. Do **not** attempt to pick up broken parts with the bare fingers. Wear protective goggles and gloves, keep debris wet while gathering it up and disposing of it. Mop surrounding area and dispose of cloths used. Wash hands and gloves thoroughly upon completion of operation.

(d) Do not dispose of fluorescent lamps in incinerators, with other rubbish where they may be accidentally broken, or in places where unsuspecting persons (especially children) may have access to them.

(2) To remove a lamp from a list 1 or a list 2 fixture, rotate the lamp 90 degrees so that the pins at each end of the lamp will slide out of the lampholder. To insert a lamp in a list 1 or a list 2 fixture, slide the pins at each end of the lamp into the slot in the lamp holder and rotate 90 degrees to lock the lamp in position. To remove a lamp from a list 3 or a list 4 fixture, remove the lamp by pressing in the telescoping fixture. To insert a lamp in a list 3 or a list 4 fixture, place the pins in the telescoping socket and press in sufficiently to permit the pins at the other end to enter the socket.

(3) After replacing a lamp on list 1 and list 2 fixtures, the starter must be reset by pushing the exposed button. List 3 and list 4 fixtures are not equipped with starters.

#### Other Parts

**3.05 Ballast:** The ballast is mounted in the center of the channel. To replace a ballast remove the lamps, loosen the reflector screws using the 4-inch regular screwdriver, and remove the reflectors. Loosen the latch screw attached to the latch cover using the 4-inch regular screwdriver, and open the covers. Remove the ballast retaining nuts using the No. 102 socket wrench. Substitute a new ballast and remount the parts in the reverse order.

**3.06 Lamp Holders:** List 1 and list 2 fixtures have a lamp holder at one end and a combination lamp holder and starter socket at the other end. List 3 and list 4 fixtures have plain sockets at one end and telescoping sockets at the other end.

**3.07 Starters:** When a lamp fails on list 1 or list 2 fixtures, the starter automatically cuts out and must be reset by pushing the exposed button before replacing the lamp. List 3 and list 4 fixtures do not require starters.

