Title          DIODE INSTALLATION - ROTATING BEACON (12 VOLT)

MODELS AFFECTED    SERIALS AFFECTED

All models and serials with 0700120-1 Beacon installed.

NOTE

At an unfixed production point the manufacturer installed a diode in the rotating beacon to protect the beacon bulb from "spike" voltages. The letter "D" (indicating that diode is installed), was stamped on the tape baffle located on the front exterior surface of the glass housing. The letter "K" (indicating that diode is not installed) was stamped on the beacon in the same manner. There are beacons of an earlier manufactured date that do not have the letter marking. It has been further determined that weather elements has caused this marking to become smeared and not legible or completely obliterated, therefore to provide diode protection for beacons not so equipped, a visual inspection must be made to determine if diode exists.

PARTS LIST:

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>PART NUMBER</th>
<th>NOMENCLATURE</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>S1367-1-4</td>
<td>Terminal</td>
</tr>
<tr>
<td>1 ft.</td>
<td>S1460-22-6</td>
<td>Wire</td>
</tr>
<tr>
<td>2</td>
<td>S341-1</td>
<td>Terminal</td>
</tr>
<tr>
<td>1</td>
<td>2VR18</td>
<td>Diode (Sarkes-Tarzain)</td>
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<td>1</td>
<td>WRM44KA</td>
<td>Bulb (14.5V)</td>
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<td>Installation Instructions</td>
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1. DESCRIPTION OF INSTALLATION.

a. Installation of this kit consists of:

(1) Removing the rotating beacon and installing a diode to protect bulb from "spike" voltages.

2. INSTALLATION INSTRUCTIONS.

a. Removal of Beacon Light. (Refer to figure 1.)

(1) Remove three screws (11) and lift beacon light free of mounting. Disconnect power supply wire and remove beacon from aircraft.

b. Installation of Diode.

(1) Remove retaining clamp (13), and separate housing (12) from glass housing (5) to expose wiring where diode is to be installed. See view A-A.

NOTE

Leave glass housing over light assembly. Place housing on a soft cloth to avoid scratching surface.

(2) Cut off and discard existing terminals (6). Cut off pigtails on diode to 1/2" lengths.
NOTE

Observe polarity when installing diode. Diode is marked with a "hard" on the cathode end.

Solder one end of short wire (3) to anode end of diode and the opposite end to terminal (2).

NOTE

Provide a "heat sink" between diode and solder point during soldering operation.

(3) Place cathode end of diode and loose ends of existing wires in new terminal (6) and crimp securely. Install new terminal (6) on existing wire (7).

(4) Install a new length of insulation sleeve of sufficient diameter to cover terminal and diode completely.

(5) Attach terminal (2) with existing screw (1).

(6) Replace existing bulb with new bulb (14).

(7) Reassemble and reinstall beacon in aircraft. Check beacon for proper operation.
Figure 1. Diode Installation.

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