

ACCESSORY KIT NO. AK-108A

DATE: December 13, 1974
TITLE: LANDING LIGHT ACCESSORY KIT
MODELS AFFECTED: AA1-0062, AA1-0063, AA1-0065, AA1-0066, AA1-0069 and on, and all Model AA-1A and AA-1B.
WEIGHT AND BALANCE CHANGE:
 Weight Increase: Negligible
 Arm: Negligible

Parts List - Accessory Kit No. AK-108A-1 (Affected Model AA-1 and AA-1A aircraft)

| <u>Quantity</u> | <u>Part Number</u> | <u>Description</u> |
|-----------------|--------------------|--------------------------------|
| 1 | 804049-1 | Seal |
| 1 | AGC-10 | Fuse (Buss) |
| 1 | HKP | Fuse Holder (Buss) |
| 1 | 26-000-100 | Rocker Switch |
| 3 | AN526-832R20 | Screw |
| 1 | 4509 | Lamp |
| 1 | 804003-503 | Retainer Ass'y |
| 1 | 804003-502 | Support Ass'y |
| 1 | BB-839-08 | Terminal |
| 2 | BB8141 | Terminal |
| 1 | 51LC3 | Wire (with terminals attached) |

Parts List - Accessory Kit No. AK-108A-2 (AA1B-0001 thru AA1B-0237)

Note: This kit includes all parts listed in AK-108A-1, except the HKP Fuse Holder and AGC-10 Fuse.

| | | |
|---|--------|----------------------|
| 1 | HKP | Fuse Holder (Delete) |
| 1 | AGC-10 | Fuse (Delete) |

Parts List - Accessory Kit No. AK-108A-3 (AA1B-0238 and up)

Note: This kit includes all parts listed in AK-108A-1, except the HKP Fuse Holder, AGC-10 Fuse and 26-000-100 Switch.

| | | |
|---|-------------|----------------------|
| 1 | HKP | Fuse Holder (Delete) |
| 1 | AGC-10 | Fuse (Delete) |
| 1 | 26-000-100 | Switch (Delete) |
| 1 | TA-201-TB-W | Switch (Add) |

Description of Installation

1. Installation of landing light and related hardware.
2. Estimated time to accomplish this installation is one (1) man hour.

NOTE: Revision "A" identifies this kit, as revised and rewritten.

Installation Instructions

1. On Model AA-1 and AA-1A aircraft, drill a 1/8" hole under LDG LT (right lower instrument panel) exactly in line with existing fuses. Use a small router or the side of a 1/4" drill bit and route out the hole to match the cut-out in rear panel (See Figure 1). (Note: On Aircraft serial AA1-0180 thru AA1-0459, it is necessary to remove the two screws and buss bar cover.)
2. Select the location designated by LDG LT placard at left end of instrument panel, drill and route out a rectangular hole conforming to the cut-out in rear panel. On aircraft serial AA1B-0238 and on, this hole is precut and plugged with a cover. Remove this cover and the "Not Used" placard.
3. On Model AA-1 and AA-1A aircraft install the fuse holder and solder the terminal strip to the buss bar. Locate the ILC1 wire in the harness behind the instrument panel near the fuse holders. This will have a plugged end. Remove plug, strip wire, solder to fuse holder and wrap with electrical tape. (Note: On Aircraft serial AA1-0180 thru AA1-0459, install the buss bar cover and secure with two screws.)
4. At the left end of the instrument panel, locate the other end of ILC1 (51LC1 on Model AA-1B aircraft) wire. Remove the plugged end and attach a BB-8141 terminal. Attach to the bottom post of the LDG LT switch.
5. Locate the ILC2 (51LC2 on Model AA-1B aircraft) wire in the harness and install a BB-8141 terminal. Attach to the top post of the LDG LT switch.
6. Install the Landing Light Assembly as instructed on Figure 2.

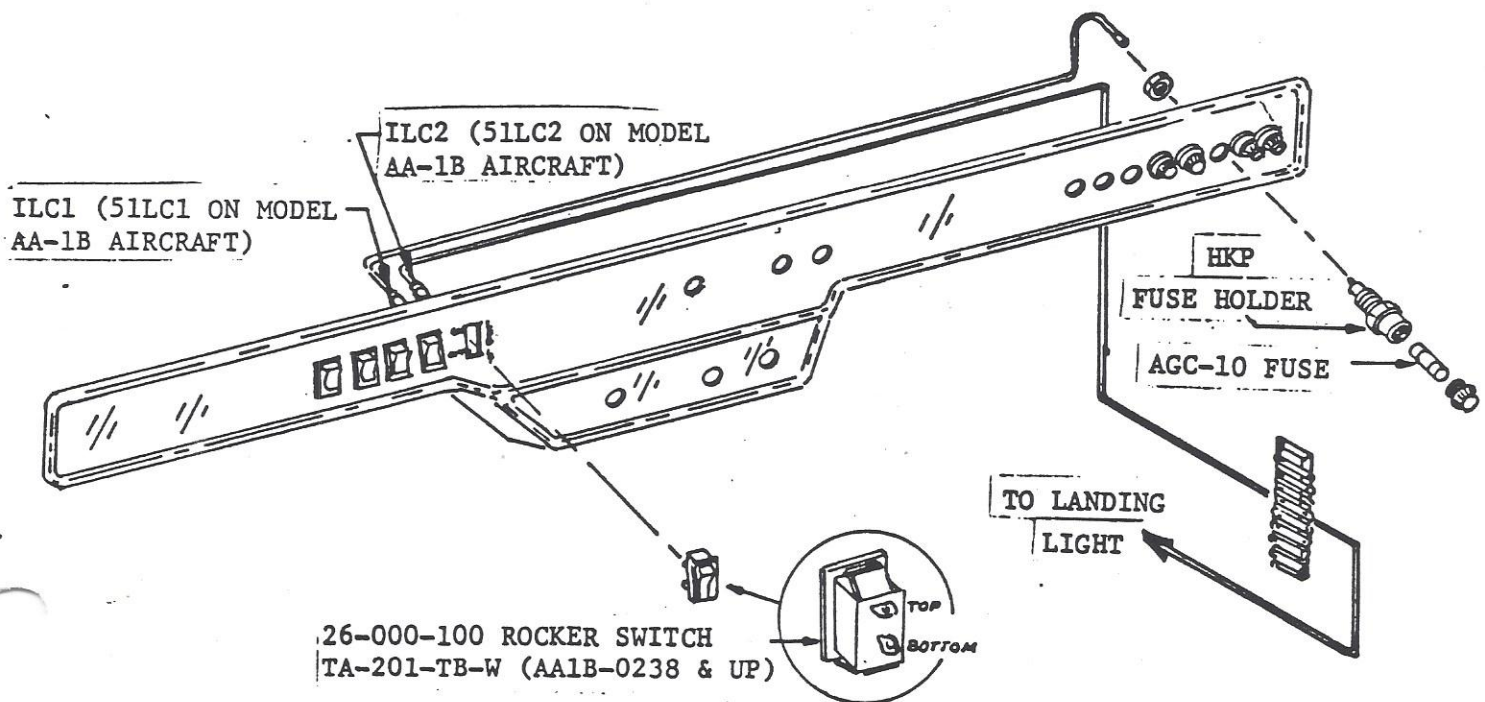
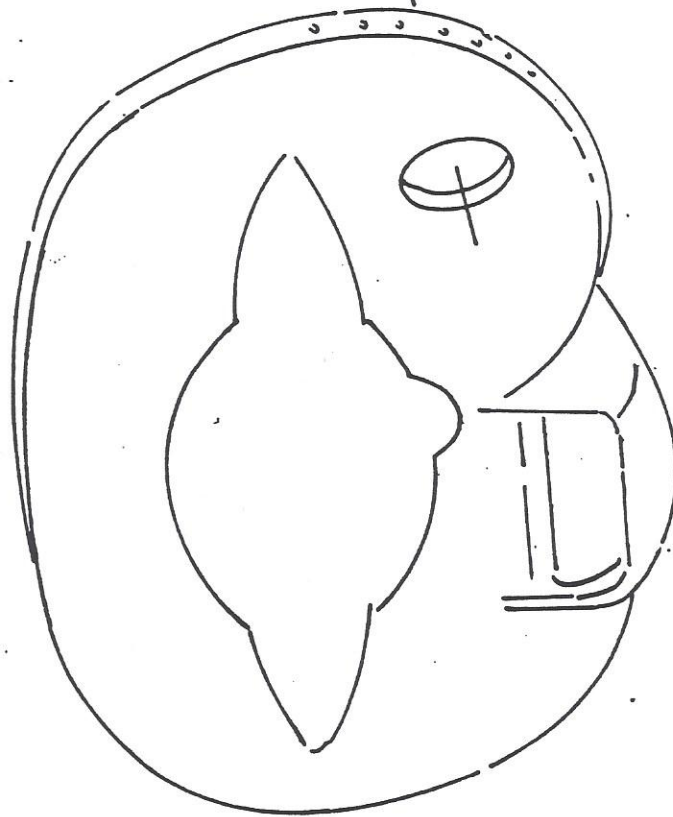


FIGURE 1. SWITCH AND FUSE HOLDER INSTALLATION

1. REMOVE UPPER COWL. REMOVAL OF LOWER COWL IS NOT NECESSARY, BUT DOES FACILITATE INSTALLATION.

5. LOCATE WIRE ILC2 (51LC2 ON MODEL AA-LB AIRCRAFT) IN HARNESS ON LEFT SIDE OF ENGINE. INSTALL A BB-839-08 TERMINAL AND ATTACH WIRE TO LAMP.

4. ATTACH ONE END OF WIRE 51LC3, SUPPLIED WITH KIT, TO LAMP AND GROUND OTHER END TO STARTER AS SHOWN.



3. INSTALL LAMP ASSEMBLY CONSISTING OF 804049-1 SEAL, 804003-502 SUPPORT ASSY, 4509 LAMP, 804003-503 RETAINER ASSY AND THREE (3) AN526-832R20 SCREWS.

2. REMOVE AND DISCARD EXISTING 3 SCREWS AND COVER PLATE.

FIGURE 2. LANDING LIGHT INSTALLATION

AFTER LANDING LIGHT INSTALLATION IS COMPLETE AND PRIOR TO LANDING LIGHT ADJUSTMENT, TIGHTEN ADJUSTING SCREWS UNTIL SEAL IS COMPRESSED TO $.68 \pm .10$. DO NOT COMPRESS SEAL TO LESS THAN .50 THICK.

NOTE: Landing light should not be adjusted beyond the point where it does not have a good seal around outer flange.

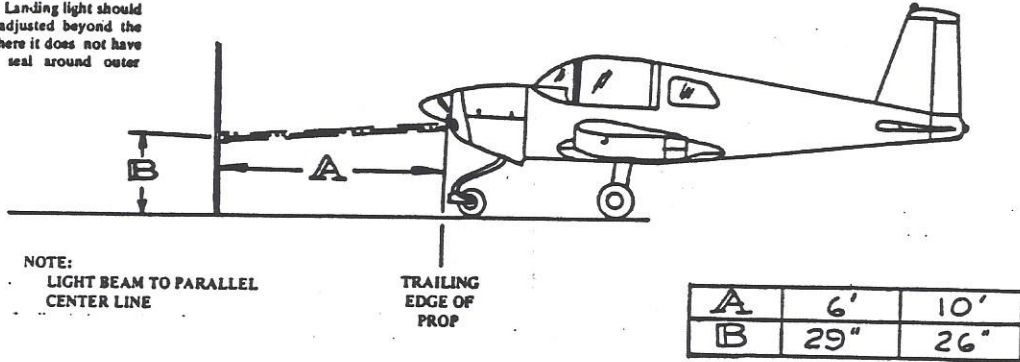


FIGURE 3. LANDING LIGHT ADJUSTMENT