

DATE: June 1, 1975

SUBJECT: LANDING LIGHT REPLACEMENT

SERIALS AFFECTED: All Model AA-1 and AA-1A, AA1B-0001 thru AA1B-0550,  
and AA5-0001 thru AA5-0640

TIME OF COMPLIANCE: Each time landing light is replaced.

GENERAL

The cowl mounted landing light and retainers on the aircraft serials affected, are subject to premature failure if installed improperly and/or nonstandard attach hardware is used for assembly. Therefore, this Service Letter provides lamp replacement instructions, specifies the attach hardware and identifies improvements that may be incorporated.

Two types of lamp mounting have been used to secure the lamp to the forward cowl. Reference to the applicable replacement instructions should be made, prior to replacing the lamp.

REPLACEMENT INSTRUCTIONS - FIGURE 1

Applicable serials: All Model AA-1 and AA-1A; AA1B-0001 thru AA1B-0338; AA1B-0340; AA1B-0343; AA1B-0346 thru AA1B-0370; AA5-0001 thru AA5-0640.

1. From behind the forward cowl, remove existing lamp and inspect retainer, support and flange assemblies for cracks; screws and anchor nuts for type specified and thread condition; and tapes for deterioration. Replace all items that are worn or damaged.
2. View the intersection of the locating notch and the inside diameter of the 804003-503 Retainer Assembly shown in Detail A. If a sharp corner exists, round off to .06 inch radius.
3. If 804003-5 & -6 Tapes were not provided as original equipment, fabricate tapes out of .06 inch thick vinyl foam tape (single faced) and attach as shown in Details A and B.
4. Subassemble retainer, lamp, support, screws and springs, and loosely attach to forward cowl. Adjust light to lowest position possible by tightening top adjustment screw fully and lower two screws only enough to eliminate gap between lamp and cowl.
5. Refer to applicable Service Manual for final adjustment specifications.

REPLACEMENT INSTRUCTIONS - FIGURE 2

Applicable serials: AA1B-0339; AA1B-0341; AA1B-0342; AA1B-0344; AA1B-0345; AA1B-0371 thru AA1B-0550.

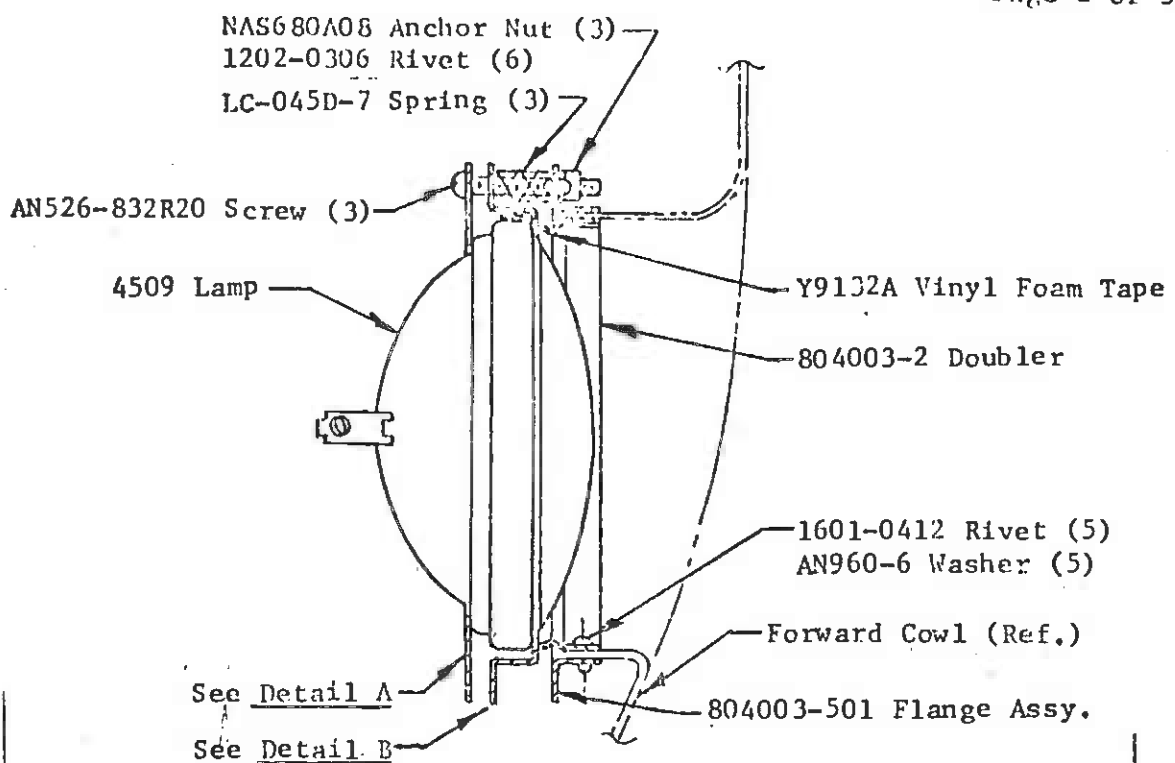
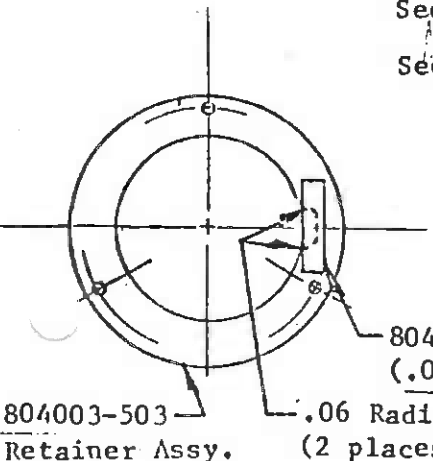
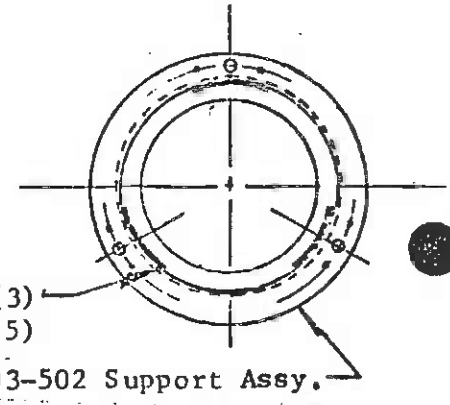


Figure 1: All Model AA-1 and AA-1A;  
AA1B-0001 thru AA1B-0338;  
AA1B-0340; AA1B-0343;  
AA1B-0346 thru AA1B-0370;  
AA5-0001 thru AA5-0640.



Detail A  
(View looking aft,  
half size)



Detail B  
(View looking forward,  
half size)

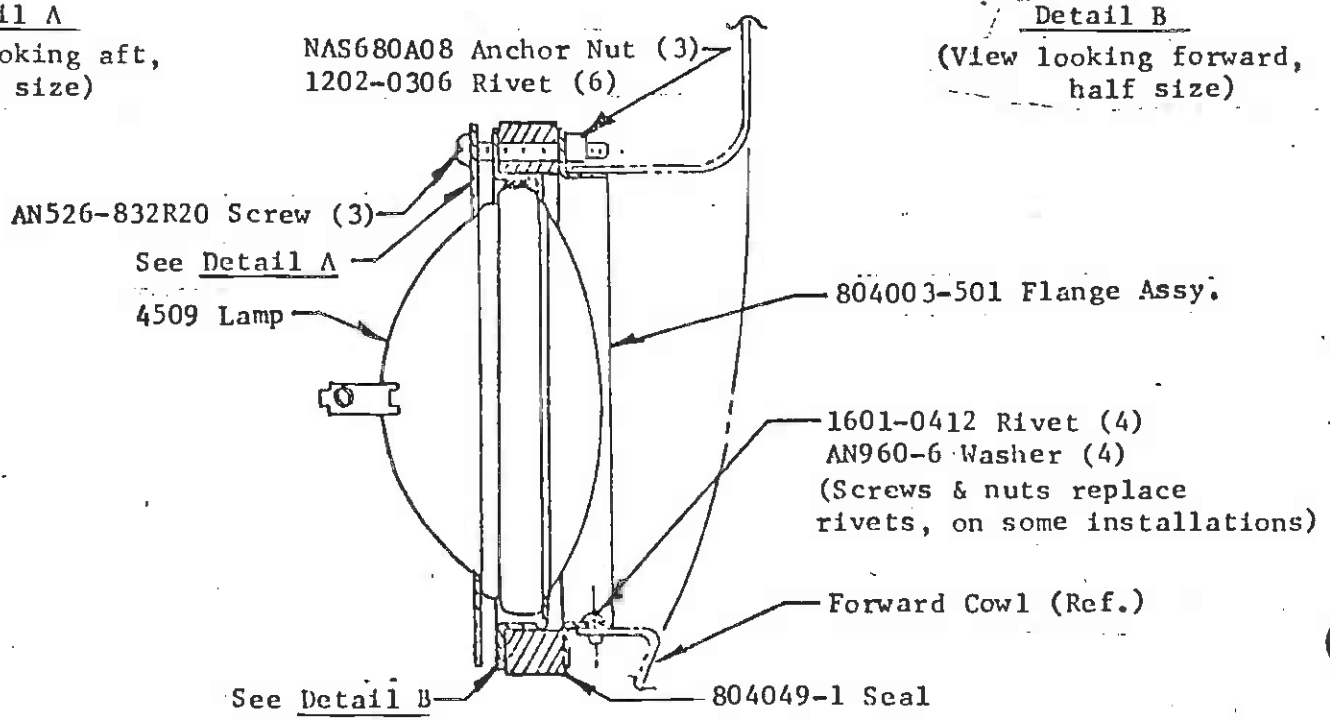


Figure 2: AA1B-0339; AA1B-0341;  
AA1B-0342; AA1B-0344;  
AA1B-0345; AA1B-0371  
thru AA1B-0550.

1. From behind the forward cowl, remove existing lamp and inspect retainer, support and flange assemblies for cracks; screws and anchor nuts for type specified and thread condition; and seal and tapes for deterioration. Replace all items that are worn or damaged.
2. View the intersection of the locating notch and the inside diameter of the 804003-503 Retainer Assembly shown in Detail A. If a sharp corner exists, round off to .06 inch radius.
3. If 804003-5 & -6 Tapes were not provided as original equipment, fabricate tapes out of .06 inch thick vinyl foam tape (single faced) and attach as shown in Details A and B.
4. Cement 804049-1 Seal to 804003-502 Support Assembly, if not joined on original installation. Contact Cement 2210, 3-M Company, is an approved adhesive.
5. Subassemble retainer, lamp, support/seal assembly and screws, and loosely attach to forward cowl. Tighten screws until seal is compressed to  $.68 \pm .10$  prior to landing light adjustment.
6. Refer to applicable Service Manual for final adjustment specifications. Do not compress seal to less than .50 inch thick.

Parts required for the above, are available from your authorized Grumman American Aviation Corporation Dealer.

Since the landing light replacement is a normal service item, no parts or labor allowance will be available for compliance with this Service Letter.

Very truly yours,

GRUMMAN AMERICAN AVIATION CORPORATION



Russ E. Belles  
Customer Service Manager

REB:jmz

Distribution (02)