

# SERVICE



SERVICE LETTER NO. 81-1

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DATE: October 9, 1981

SUBJECT: REPLACEMENT OF INDUCTION AIR FILTER

MODELS AFFECTED: AA1 0001 and Subsequent & AA5 0001 thru AA5 0640  
AA5 0641 and Subsequent  
AA5A 0001 and Subsequent  
AA5B 0001 and Subsequent

TIME OF COMPLIANCE: As Noted Below

GENERAL:

This Service Letter calls attention to the requirements of Service Letter 77-4 (a copy of which is attached) for AA5B aircraft serial numbers 0001 thru 0549, and normal mandatory filter replacement intervals, as called for in the respective Maintenance Manual for each affected model series.

PROCEDURE:

1. Engine Air Filter Servicing all AA1 and AA5 0001 thru 0640 aircraft: Inspection, servicing and replacement should be done in accordance with the appropriate manufacturers maintenance manual. Although these aircraft were delivered with reusable filters, some aircraft may have been converted to foam-type filters under various STC's. These filters may not be washable, and must be serviced or replaced as called for under the provisions of these STC's.
2. Engine Air Filter Servicing: AA5 0641 and Subsequent, and all AA5A aircraft:

The engine air filter element should be replaced every 100 hours of engine operation, every (12) twelve calendar months, when torn or when 50% covered with foreign material, whichever occurs first.

Replace the engine air filter element as follows:

NOTE

Never blow off filter with compressed air or attempt to wash element in any liquid or soak in oil.

- A. Locate filter access per Figure 6 Section 12-2-1 of the AA5 Series Maintenance Manual. Remove the screws that attach the filter cover plate and remove the plate.
- B. Remove old filter element and install replacement.
- C. Replace filter cover plate and reinstall screws attaching it.

3. Engine Air Filter Servicing: AA5B aircraft:

- A. On aircraft AA5B 0001 through 0549 using filter Part Number 8994656 and aircraft AA5B 0550 through 0950 using filter Part Number 5500015-501, replace the foam-type filter element every 300 hours, ever (12) twelve calendar months, when torn, or when 50% covered with foreign material, whichever occurs first. Replace filter as follows:

NOTE

Never blow off filter with compressed air or attempt to wash element in any liquid or soak in oil.

1. Open both sides of upper cowl and secure with support tubes.
  2. Remove lower engine cowl.
  3. Unbolt filter access door, see Figure 7 Section 12-2-1 of the AA5 Series Maintenance Manual, on bottom of air box/filter assembly.
  4. Remove old filter and install replacement.
  5. Close and secure filter access door.
  6. Install lower engine cowl.
  7. Close and secure upper engine cowl.
- B. On aircraft AA5B 0951 and subsequent, check the paper-type carburetor air filter during each 100 hour inspection. If the filter is dusty, it may be removed and cleaned with compressed air or washed in a solution of water and Donaldson D-1400 filter cleaning compound or equivalent. Replace the filter after one year, after ten cleanings, or after 500 flight hours, whichever occurs first. Service filter as follows:

1. Open both sides of upper cowl and secure tubes.
2. Remove lower engine cowl.
3. Unbolt filter access door, see Figure 7 Section 12-2-1 of the AA5 Series Maintenance Manual, on bottom of air box/filter.
4. Remove filter, clean and inspect as follows:
  - (a) Clean filter, using methods described above.
  - (b) After filter is clean and dry, inspect filter by using a bright light on one side and looking through the filter from the other side. Check thoroughly for holes or tears in the filter.
5. Install cleaned or new filter.
6. Close and secure filter access door.
7. Install lower engine cowl.
8. Close and secure upper engine cowl.

PARTS AVAILABILITY:

Service Kit No. 113 is available for filter/assembly replacement on AA5B 0001 through AA5B 0549. Filter element assemblies are available through your authorized Gulfstream Service Center for all other aircraft.

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