

SERVICE BULLETIN NO. 170

Gulfstream American considers
this Service Bulletin mandatory.

DATE: JULY 23, 1981

SUBJECT: AIR FILTER RETENTION SCREEN

SERIALS AFFECTED: AA5-0641 and Subsequent and all
AA5A Aircraft.

TIME COMPLIANCE: Initial inspection at 500 hours time in
service or upon receipt of this bulletin
if filter retention screen has accumulated
more than 500 hours time in service and
every 100 hours after initial inspection
until the 5503006-20 screens are installed.

GENERAL:

Some AA5 and AA5A aircraft have had breakage of the P/N 5503006-9 air filter retention screen. This can result in the ingestion of the air filter into the carburetor throat and possible loss of engine power. The purpose of this bulletin is to cover inspection and replacement of the P/N 5503006-9 air filter retention screen.

INSPECTION:

1. Inspect both forward and aft P/N 5503006-9 air filter retention screens in the area of the bends to see if any of the wires are broken.
2. If there is no visible breakage, inspect every 100 hours thereafter.
3. If breakage is found and that breakage is less than five wires per screen, inspect for foreign object damage (FOD) in the area of the carburetor. Continued operation is permitted until the improved screens can be installed, however, the broken screens must be inspected every 5 hours to check for further damage.
4. If more than five wires are broken on either screen, the screen should be replaced before further flight.

5. Upon installation of new retention screen, inspection under this Service Bulletin is no longer required, however, all parts of the air box assembly should still be inspected at normal inspection intervals as called for in the maintenance manual.

INSTALLATION INSTRUCTIONS:

1. Remove rivets in both old screens straps. Remove and discard screens and retaining straps.
2. Clean air box thoroughly in area around screens.
3. Check to see that new screens (P/N 5503006-20) fit in box snugly with overlapped corners toward open side (bottom) of box. Take care that bend radius is not allowed to be smaller than 1/8 inch.
4. Install new 5503006-11 side retainer straps, forming wire slightly if required, to allow rivets to go through wire openings. Make sure that overlapped corners are riveted under the retaining straps.
5. Install top retainer straps as shown on Figure 1. Holes should be centered in screen openings.
6. Seal rivets with Pro Seal 700 to prevent leakage.
7. Install old filters if serviceable or new filters as required.
8. Reinstall air box.
9. Enter compliance with Service Bulletin No. 170 in aircraft log, and return to service.

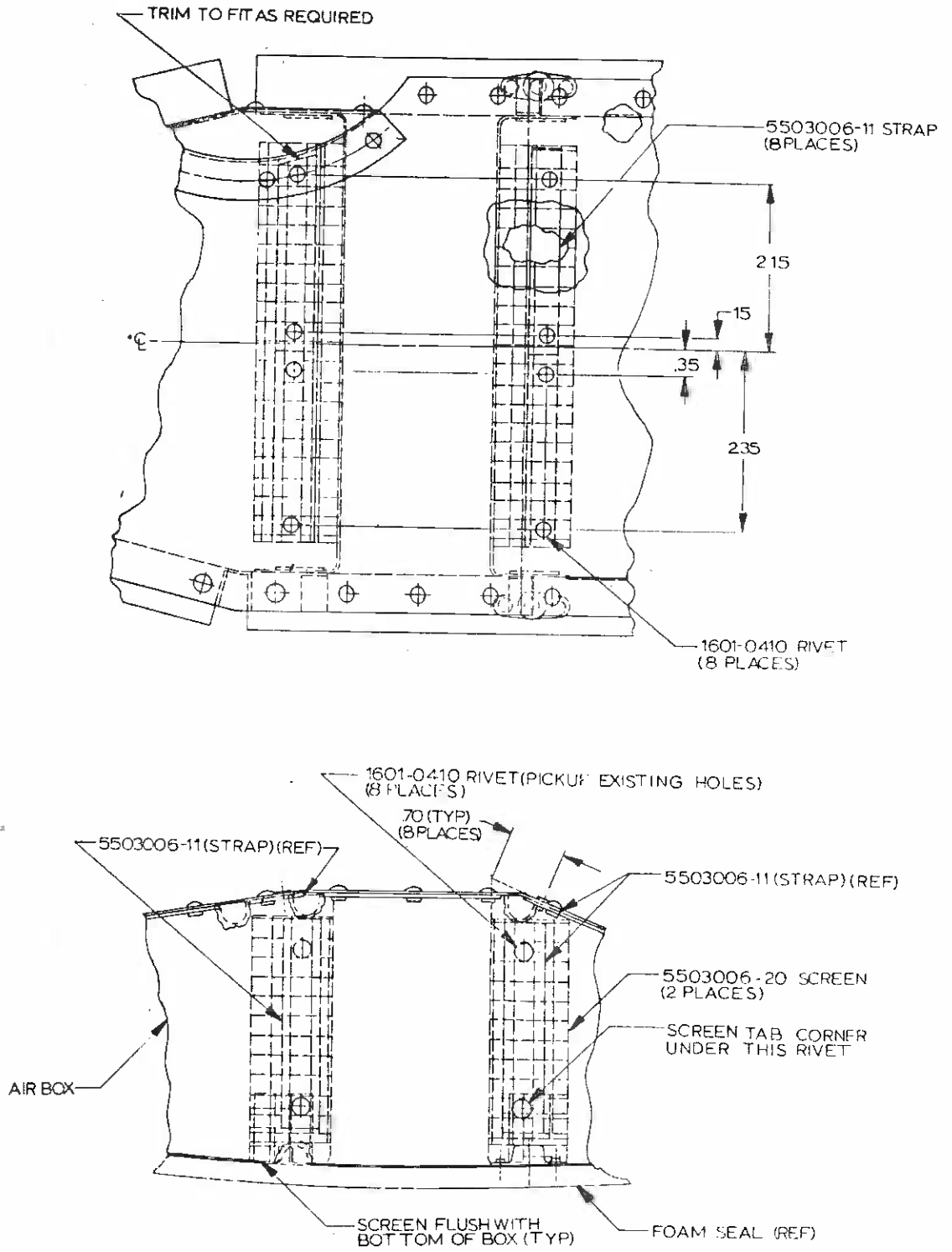
PARTS INFORMATION:

Replacement parts may be obtained from your local Gulfstream American Service Center.

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>NAME</u>
2 ea.	5503006-20	Screen
8 ea.	5503006-11	Retainer Strap
16 ea.	1601-0410	Rivets

NOTE:

1) ALL DIMENSIONS ARE APPROXIMATE DIMENSIONS.



SCREEN REWORK

FOR -501 AIR BOX ASSY
 FIGURE 1 OF SERVICE BULLETIN NO.170