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SERVICE KIT # SK155

SUBJECT

Wing gap strap modification to allow use of screws instead of rivets.

PURPOSE

This service kit provides instructions for the modification of the wing gap strap attachment method. The airplanes were produced with the straps riveted to the wing. This kit allows the use of screws and RIVNUTS to replace the rivets. This should simplify removal and reinstallation of the straps on aircraft that require periodic inspection of the wing rib bond lines.

SPECIAL TOOLS/EQUIPMENT REQUIRED

RIVNUT Installation Tool with #6-32 Pull-Up Stud

EFFECTIVE MODELS/SERIALS

Models	Serial Numbers	Kit Number
AA-1, AA-1A, AA-1B, AA-1C	All	Kit 1
AA-5, AA-5A, AA-5B, AG-5B	All	Kit 2

PARTS LIST

Part #	Name	Quantities	
		Kit 1	Kit 2
A6-75	RIVNUT	26	52
MS35206-229	Screw	26	52
MS35335-30	Lock Washer	26	52

WEIGHT & BALANCE

Negligible Effect

PRICE

Kit 1	TBD
Kit 2	TBD

MODIFICATION INSTRUCTIONS

1. Prepare aircraft for safe maintenance as follows:
 - 1.1 Ensure master and magneto switches are off.
 - 1.2 Disconnect the positive cable from the battery and secure.
2. Remove the wing gap straps (shown in Figure 1 for the AA-5 series, the AA-1 series would have one per wing panel) from the wings. This is accomplished by drilling the rivet head away and carefully taping the rivet body down through the hole. The rivet bodies should then be removed from the wings.

DIAGRAM OF AA-5A LONG RANGE, AA-5B, & AG-5B WING SHOWN
ALL OTHER MODELS SHOULD USE THE SAME PROCEDURE

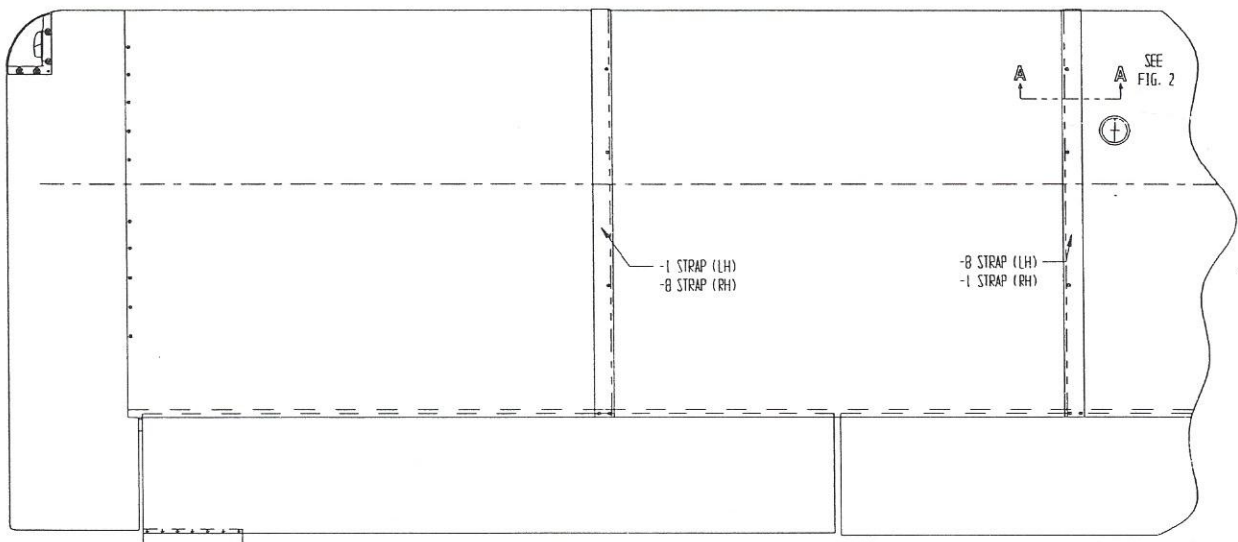
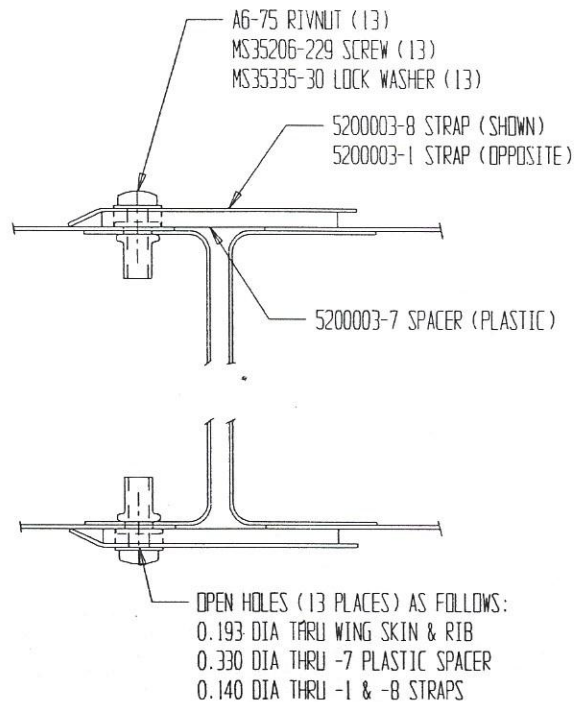


FIGURE 1

3. Modify the straps by opening the 13 rivet holes in each up to 0.140 diameter (Figure 2).

4. Modify the plastic shims by opening the 13 holes in each up to 0.330 diameter (Figure 2).
5. Modify the wing panels by opening the 13 holes at each strap location up to 0.193 diameter (Figure 2). Use caution when drilling near the main wing spar. Remove any metal filings from the wings.
6. Debur all holes.
7. Install an A6-75 RIVNUT in each of the 13 holes at each strap location on the wing panels (Figure 2).
8. Reinstall the plastic shims and gap straps using the MS35206-229 screws and the MS35335-30 lock washers provided, 13 of each per gap strap (Figure 2).
9. Return the aircraft to service as follows:
 - 9.1 Reconnect the positive cable to the battery.
 - 9.2 Record the addition of this service kit modification in the aircraft log book.

AA-5A LONG RANGE, AA-5B & AG-5B PART NUMBERS GIVEN
ALL OTHER MODELS USE THE SAME PROCEDURE



SECTION A-A

FIGURE 2