

P.O. BOX 3090 ONE AYRES WAY ALBANY, GEORGIA 31706-3090 PHONE 229/883-1440 FAX 229/439-9790

Service Bulletin No. SB-AG-24

June 20, 1990

HORIZONTAL STABILIZER STRUT ATTACH INSPECTION

MODELS AFFECTED: MODEL SERIAL NUMBER

All models listed that have AYRES ESK 407 empennage version, or AYRES factory metal empennage

installation.

S2R 1416R thru 2582R S2R-R3S

R3S-001 thru R3S-011 R2S-001DC thru R3S-011DC

S2R-R1340 R1340-001 thru R1340-023

R1340-001DC thru R1340-023DC

S2R-R1820 R1820-001 thru R1820-034

R1820-001DC thru R1820-034DC

S2R-T11 T11-001 thru T11-005

T11-001DC thru T11-005DC

S2R-T15 T15-001 thru T15-023

T15-001DC thru T15-023DC

T34-001 thru T34-149 S2R-T34

T34-001DC thru T34-149DC

T65-001DC S2R-T65

S2R-HGT65 T65-002DC thru T65-009DC

REASON FOR

PUBLICATION: This Service Bulletin is being issued to

> Provide a procedure for inspection of the attach points for the (A) horizontal stabilizer struts to determine if a crack exists.

(B) A method to repair the crack if one is found.

(C) Strengthen the attach point to prevent cracks in the future.

(D) Provide a time limit for accomplishing the inspection and

modification.

COMPLIANCE: Visual inspection before next flight. If no crack exists, modification no later

than next 100-hour inspection is required. If a crack is found, repair and

modification before next flight is required.

BY WHOM WORK WILL

BE ACCOMPLISHED: A & P mechanic or equivalent

APPROVAL: FAA Approved

ESTIMATED AN HOURS: Inspection – Thirty minutes

Inspection and modification – 2 to 3 hours

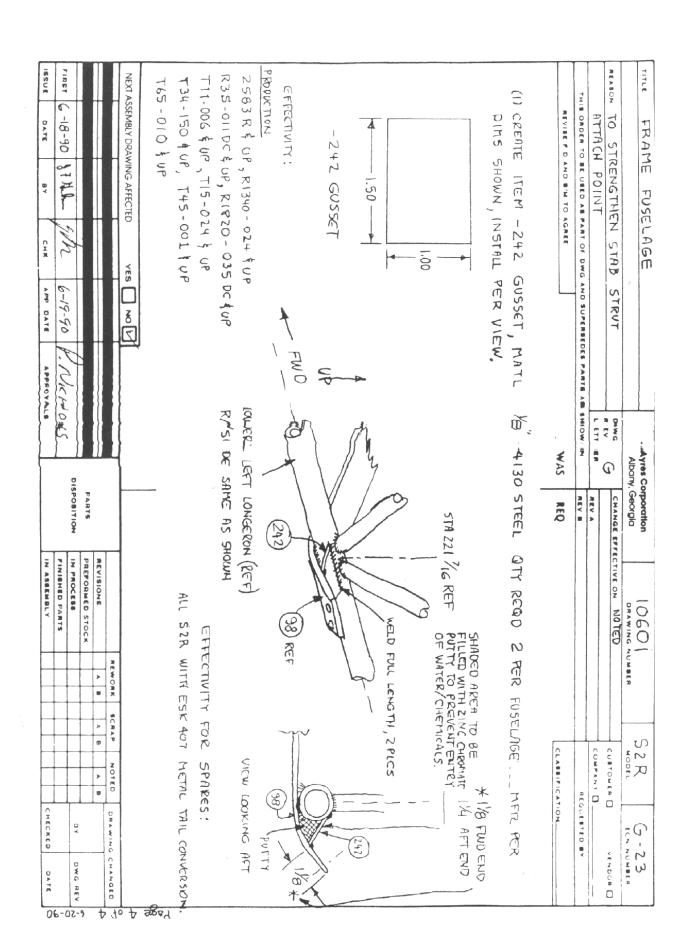
SPECIAL TOOLS: Welding equipment

ACCOMPLISHMENT INSTRUCTIONS:

- 1. Inspect the lower aft fuselage at the stabilizer strut attach point and the area aft of this point for linseed oil stains and accumulation. If oil is present, there is immediate evidence of a crack and immediate repair is required before next flight.
- 2. If linseed oil stains or accumulation are not found, remove left and right fuselage side skins for access to this area; clean thoroughly.
- 3. Remove the 4 bolts on each side that hold the 2 (upper and lower) splice plates to the fuselage/strut attach tabs.
- 4. Slip a 10" or larger adjustable wrench or other suitable tool over the tab on the lower longeron and apply approximately 20 pounds of force downward while watching the weld bead where the strap (tab) joins the fuselage longeron. A springy feel obvious crack visible requires immediate repair and modification.
- 5. If tab is rigid and no crack is detected, the strut may be reinstalled and the aircraft returned to service. The modification may be delayed until the next 100-hour inspection, provided that close visual inspection is made prior to every flight until the modification is accomplished.
- 6. If a crack is present on either side, install part 10601-242 in accordance with 10601 ECN G-23 provided as page 4 of this service bulletin. Prior to welding, drill a small (1/16") hole in one of the diagonal members near the attach tab. This will prevent a build up pressure in the frame. Weld the hole closed when the repair is finished. Sand, prime and paint the repair. Pack the resulting triangular cove with zinc chromate putty to prevent a build up of chemical residue from accumulating.

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RECORD COMPLIANCE:	Make appropriate entry in aircraft maintenance records.
Example 1:	AYRES SERVICE BULLETIN NO. SB-AG-24 COMPLIED WITH ON (date) AND NO CRACKS WERE FOUND. AIRCRAFT RETURNED TO SERVICE. TOTAL TIME
	SIGNATURE, TITLE, DATE
Example 2:	AYRES SERVICE BULLETIN NO. SB-AG-24 COMPLIED WITH ON (date) AND MODIFIED IN ACCORDANCE WITH INSTRUCTIONS. TOTAL TIME
	SIGNATURE, TITLE, DATE



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