

# Rockwell service bulletin

## International

No. SB-AG-11

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Service Bulletin No. SB-AG-11  
31 January 1977

### INSPECTION AND/OR REPLACEMENT OF AILERON HINGE BRACKETS

MODELS AFFECTED: MODEL S-2R, SERIAL NOS. 1416 THRU 2491  
5000 THRU 5100  
MODEL S2R-T34, SERIAL NOS. 6000 THRU 6007 REVISED 10-20-78

REASON FOR PUBLICATION: INSPECT FOR POSSIBLE CRACKS IN AILERON HINGE BRACKETS.

COMPLIANCE: PART I – PRIOR TO NEXT FLIGHT.  
PART II – WITHIN NEXT TEN (10) HOURS TIME IN  
SERVICE AND ANNUALLY THEREAFTER.

#### NOTE

IF ANY PROBLEMS ARE ENCOUNTERED WHILE COMPLYING WITH THIS SERVICE BULLETIN, CONTACT YOUR NEAREST THRUSH COMMANDER DEALER OR YOUR THRUSH COMMANDER REGIONAL SERVICE MANAGER (REFERENCE SERVICE INFORMATION NO. SA-123).

BY WHOM WORK WILL BE ACCOMPLISHED: A & P MECHANIC OR EQUIVALENT.

APPROVAL: FAA DER Approved.

ESTIMATED MAN HOURS: VISUAL INSPECTION ONLY – FIFTEEN (15) MINUTES.  
FLUORESCENT INSPECTION – FOUR (4) HOURS.  
REPLACE HINGE BRACKET – FOUR (4) HOURS.

PARTS DATA 2 ea. Compliance Cards

#### NOTE

The aileron hinge brackets listed below are applicable to either left or right aileron and may be procured through normal procedures.

2 ea. 20354-1 Aileron Hinge Brackets (LH inboard and Outboard)  
2 ea. 20354-2 Aileron Hinge Brackets (RH Inboard and Outboard).  
1 ea. 20354-3 Aileron Hinge Bracket (LH Center)  
1 ea. 20354-4 Aileron Hinge Bracket (RH Center)

SPECIAL TOOLS: FLUORESCENT PENETRANT INSPECTION EQUIPMENT

ACCOMPLISHMENT INSTRUCTIONS:

PART I

1. Visually inspect all aileron hinge brackets in area shown in Figure 1. For possible cracks.
2. If no cracks are evident, proceed to step 10. Of Part I.
3. If cracks are found, remove applicable aileron from airplane as outlined in the Airplane Maintenance Manual, Section VII.
4. Cut a 1.50-inch diameter hole (as necessary) in lower aileron skin in order to gain access to aileron hinge bracket attaching nuts (see Figure 2.).
5. Remove and replace cracked aileron hinge brackets as necessary.

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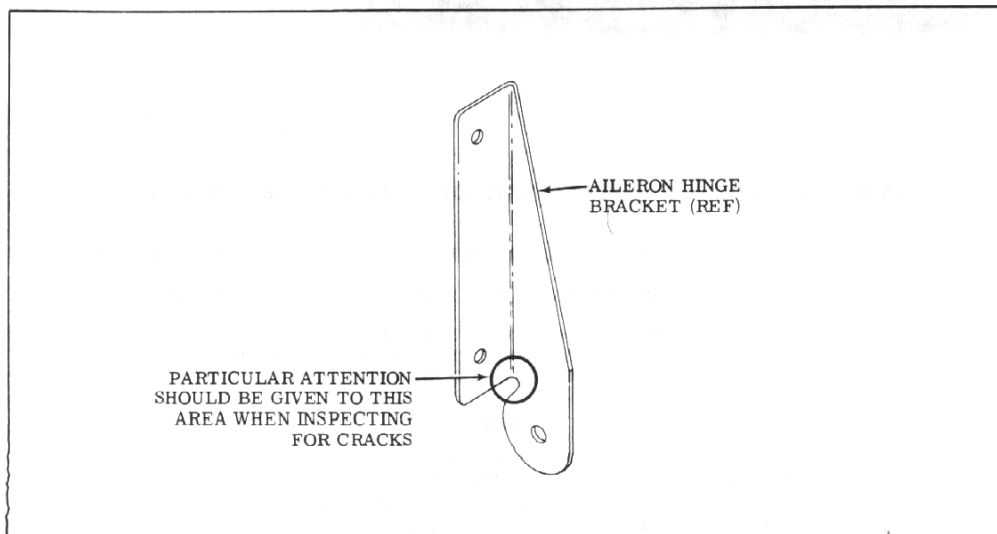


Figure 1.

6. Fabricate a cover as shown in Figure 2. from 2024-T3 aluminum sheet stock.

**NOTE**

Thickness of cover to be same as aileron skin.

7. Install cover, fabricated in step 6., using CR2249-4-1 blind rivet (8 places) (see Figure 2.).
8. Repaint area, as necessary, as outlined in the Airplane Maintenance Manual in Section II, entitled "CORROSION CONTROL".

9. Reinstall aileron (s) on airplane as outlined in the Airplane Maintenance Manual, Section VII.
10. Fill out and mail Compliance Card.
11. Proceed to RECORD COMPLIANCE.

**PART II**

1. Fluorescent penetrant inspect all aileron hinge brackets.
2. If no cracks are found, proceed to step 10 . of Part II.
3. If cracks are found, remove applicable aileron from airplane as outlined in the Airplane Maintenance Manual, Section VII.
4. Cut a 1.50-inch diameter hole (as necessary) in lower aileron skin in order to gain access to aileron hinge bracket attaching nuts (see Figure 2.).
5. Remove and replace cracked aileron hinge brackets as necessary.
6. Fabricate a cover as shown in Figure 2. from 2024-T3 aluminum sheet stock.

**NOTE**

Thickness of cover to be same as aileron skin.

7. Install cover, fabricated in step 6. using CR 2249-4-1 blind rivet (8 places) (see Figure2.).
8. Repaint area, as necessary, as outlined in the Airplane Maintenance Manual in Section II, entitled "CORROSION CONTROL".
9. Reinstall aileron(s) on airplane as outlined in the Airplane Maintenance Manual, Section VII.
10. Fill out and mail Compliance Card.

**NOTE**

Aileron hinge brackets must be inspected every fifty (50) hours as outlined in the Airplane Maintenance Manual inspection Intervals Charts in Section II, entitled "WINGS".

ELECTRICAL LOAD: NO CHANGE

WEIGHT AND BALANCE: NO CHANGE

**PUBLICATIONS**

**AFFECTED:** The Airplane Maintenance Manual change required by Part II of this document will be incorporated at the next scheduled change/revision.

**RECORD COMPLIANCE:** Make appropriate entry in airplane maintenance records as follows: Service Bulletin No. SB-AG-11, dated 31 January 1977, entitled "Inspection and/or Replacement of Aileron Hinge Brackets", Part I accomplished \_\_\_\_\_(date)\_\_\_\_\_. Part II accomplished \_\_\_\_\_(date)\_\_\_\_\_.

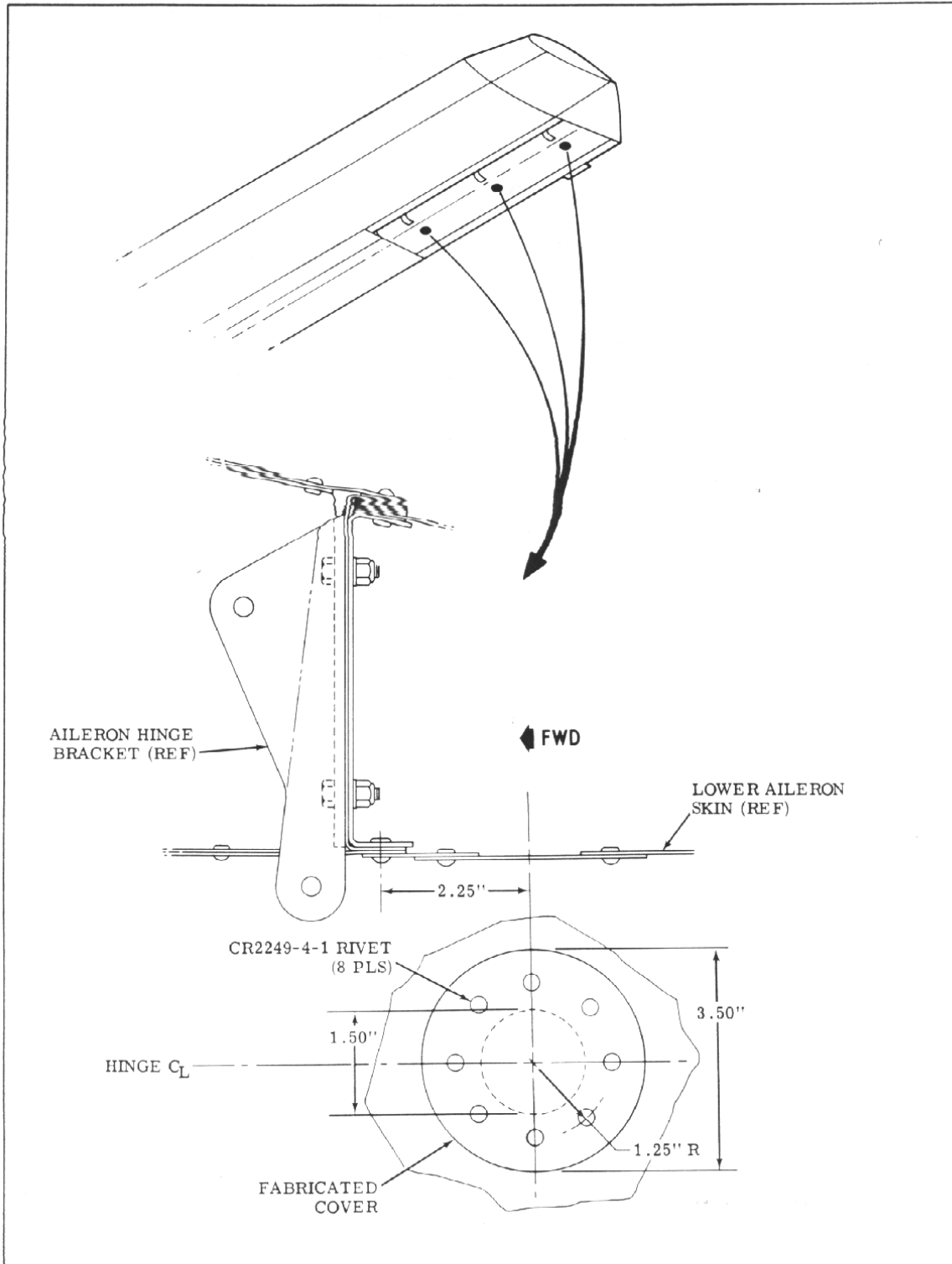


Figure 2.