

# Rockwell service bulletin No. SB-AG-2A

## International

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

**Service Bulletin No. SB-AG-2A**  
**December 2, 1974**

(Service Bulletin No. SB-AG-2A supercedes Service Bulletin No. SB-AG-2 in its entirety.)

INSPECTION OF RUDDER ASSEMBLY P/N 5-4030-41.

- EFFECTIVITY:      PART I – MODEL S-2R, SERIAL NO'S 1416R THRU 1899R WITH RUDDER ASSEMBLY P/N 5-4030-41 INSTALLED.
- PART II – MODEL S-2R, SERIAL NO'S 1416R THRU 2029R WITH RUDDER ASSEMBLY P/N 5-4030-41 INSTALLED.
- COMPLIANCE:      SEE BELOW.
- APPROVAL:        FAA DER Approved
- PURPOSE:         Field repairs have revealed there were five rudder assemblies that were found to have tubing cracks or breaks. This Service Bulletin is being issued to aid the operator during inspection of the rudder assembly.

**NOTE**

Aircraft with Rudder Assembly P/N 5-4030-87  
Installed are not affected by this Service Bulletin.

PART I – TO BE ACCOMPLISHED AT 1000 FLIGHT HOURS OR NEXT ANNUAL INSPECTION.

INSTRUCTIONS:

- a.      Remove rudder assembly from aircraft.
- b.      Remove approximately six(6) square inches of fabric and paint from both sides of the lower portion of rudder assembly (see Figure 1.).
- c.      In the center of the stripped fabric section, drill a ¼-inch diameter hole in one side only of the forward spar tube.
- d.      Measure the depth of the tube to the opposite inside wall and then using a precision caliper, measure the overall rudder spar tube diameter.

## NOTE

The difference in measurements will determine the tube wall thickness.

- e. Assure that the forward rudder spar tube wall thickness is 0.049-inch.
- f. If tube wall thickness of forward rudder spar is less than 0.049-inch, install 5-4030-87 rudder assembly, fill out and mail compliance card and proceed to AIRCRAFT RECORDS.
- g. If tube wall thickness of forward rudder spar tube is 0.049-inch, proceed to step b. of PART II.

PART II TO BE ACCOMPLISHED AT 1000 FLIGHT HOURS OR NEXT ANNUAL INSPECTION AND EVERY ANNUAL INSPECTION THEREAFTER UNTIL REPLACED WITH RUDDER ASSEMBLY P/N 5-4030-87.

### INSTRUCTIONS:

- a. Remove rudder assembly from airplane.
- b. Remove fabric from rudder assembly.
- c. Clean and inspect entire rudder assembly utilizing a dye penetrant test in accordance with FAA Advisory Circular AC 43.13-1 (see Figure 1.).
- d. If no cracks are found on aircraft Serial Numbers 1416R thru 1899R, rosette weld the ¼-inch inspection hole in accordance with FAA Advisory Circular AC 43.13-1 (Chapter 2, Page 26-1).
- e. If no cracks are found on aircraft Serial Numbers 1900R thru 2029R, proceed to step f.
- f. Repaint and recover rudder assembly with new fabric in accordance with FAA Advisory Circular AC 43.13-1.
- g. Install existing rudder assembly on aircraft.
- h. If cracks or breaks are found, discard existing rudder assembly and install 5-4030-87 rudder assembly.
- i. Fill out and mail compliance card.

SUPPLY DATA: The following part may be purchased through your nearest Thrush Commander Distributor.

QTY	PART NO.	DESCRIPTION
1 ea.	5-4030-87	Rudder Assembly
2 ea.		Compliance Card

ELECTRICAL LOAD: Not Applicable

WEIGHT AND BALANCE DATA: Not Applicable

AIRCRAFT RECORDS: Make appropriate entry in aircraft permanent maintenance records as follows: Service No. SB-AG-2A, dated December 2, 1974, entitled "Inspection of Rudder Assembly P/N 5-4030-41", Part I accomplished \_\_\_\_\_ (dated) \_\_\_\_\_, Part II accomplished \_\_\_\_\_ (dated) \_\_\_\_\_.

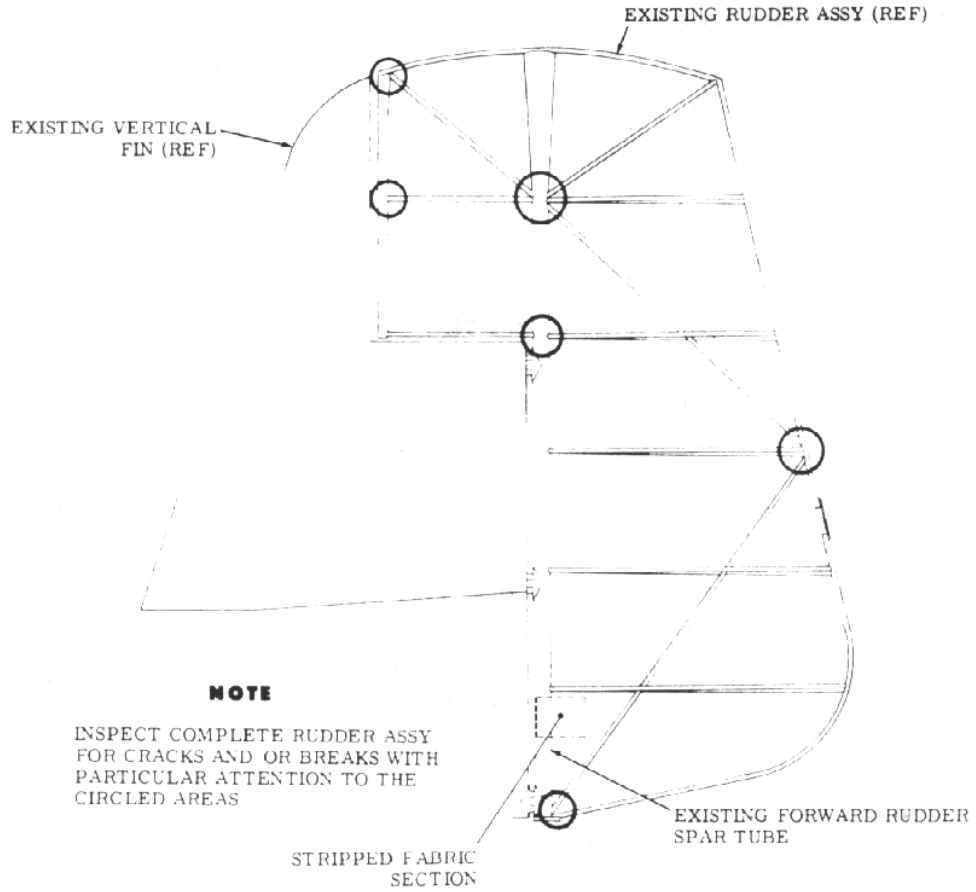


Figure 1.