

CHAP. 1 AIRFRAME		SERVICING PROCEDURE		BAC F53 & T55 (SA)	
SP. 17 AL 4		F53 T55		5A3A Section 1	
SHEET 1 OF 5				2nd Edition	
Rudder Powered Flying Control Unit - Fitting				AFSC	
				42152	
				43151	
				42172	
				43171	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					
SPECIAL TOOLS AND EQUIPMENT				ASSOCIATED PROCEDURES	
Rudder travel gauge (26DK/95286).				SP 16 (AF)	
Locating pin (26DK/95127).				115A (AF)	
Hobson spanner (27KH/2753).				or	
				115B (AF)	
				152 (AF)	
42152 / 43151					
1. PREPARATION					
1.1 Replacement PFCU.		(i) Prime.			
		(ii) Set to mid-stroke position.			
1.2 Replacement PFCU jack eye end.		Adjust until pin centre length recorded in SP 16 (AF) is obtained.			
1.3 Replacement PFCU jack eye end locknut.		(i) Tighten.			
		(ii) Check that distance between forward face or locknut and pin centre does not exceed 1.50 in. (See Fig.1).			
2. FITTING					
2.1 Rudder PFCU.		Position in aircraft and support.			
2.2 Rudder PFCU jack eye end.		(i) Ensure smaller bush is towards the outer skin (See Fig.1).			
		(ii) Fit to fuselage anchorage.			
		(iii) Tighten pin.			
2.3 Rudder PFCU hydraulic connexions.		(i) Remove blanks.			
		(ii) Fit to rudder PFCU (See Fig.1).			
2.4 Rudder PFCU body end-fitting.		Fit to rudder pintle lever (See Fig.1).			
2.5 Rudder PFCU input control rod.		Fit to rudder PFCU (See Fig.1).			
3. BLEEDING					
3.1 Rudder control system. Bleed (SP 152 (AF)).					
				Continued Overleaf	
SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS					

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4. TESTING

- 4.1 Rudder PFCU input control rod. Disconnect at PFCU.
- 4.2 Rudder.
- (i) Move fully to the left using PFCU input lever and trolley hand pump.
 - (ii) Check that travel is between 22 and 23 degrees.
 - (iii) Move fully to the right using PFCU input lever and trolley hand pump.
 - (iv) Check that travel is between 22 and 23 degrees.

5. FITTING

- 5.1 Nos 1 and 2 control hydraulic systems. Pressurize to 3000 lbf/in2.
- 5.2 PFCU input lever. Operate to centralize rudder.
- 5.3 Hydraulic test trolleys. STOP.
- 5.4 PFCU eye end attachment bolt.
- (i) Torque tighten to 35 lbf ft. using spanner (27KH/2753).
 - (ii) Lock special pin by fitting cover plate.
- 5.5 Locating pin (26DK/95127). Fit (Panel 26s(right)F53;panel 20s(right)T55).
- 5.6 Rudder PFCU input.
- (i) Adjust to correct length.
 - (ii) Tighten locknuts.
 - (iii) Lock with wire.
 - (iv) Reconnect to PFCU.
- 5.7 Locating pin (26DK/95127). Remove.

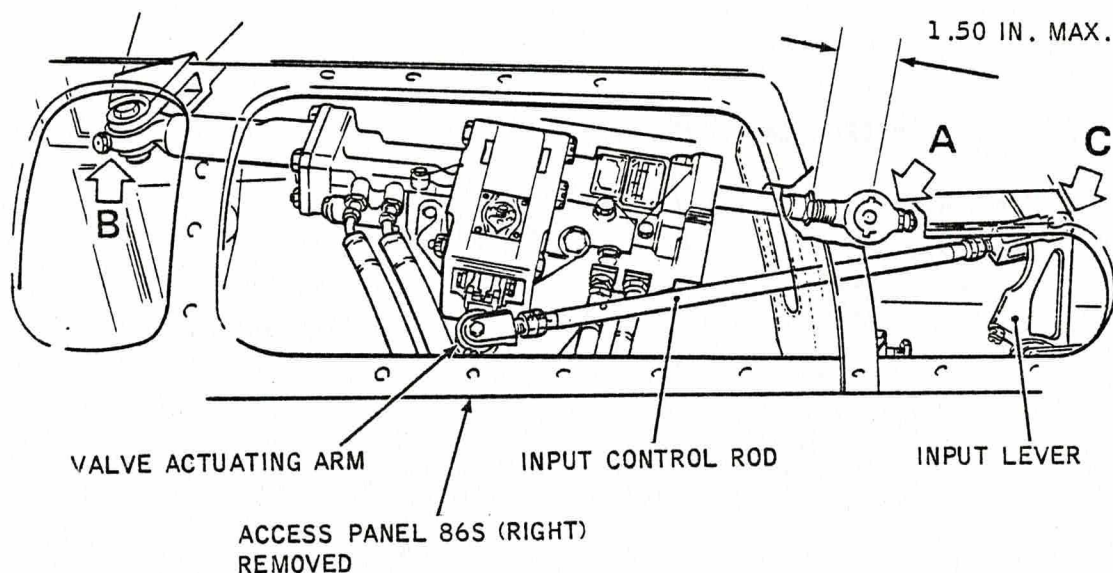
6. TESTING

- 6.1 Rudder control system. Test (SP 115A(AF) F53),
(SP 115B(AF) T55).

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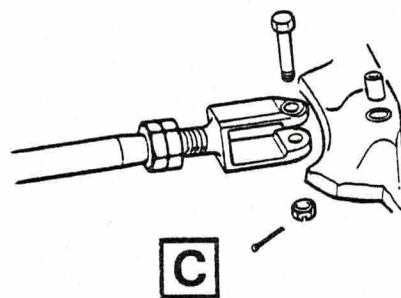
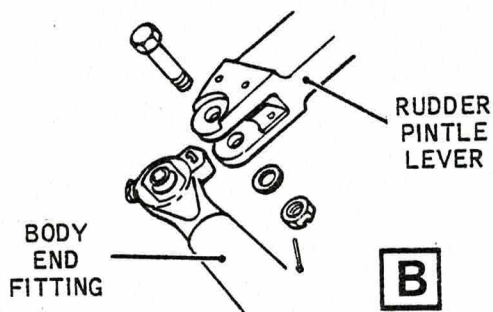
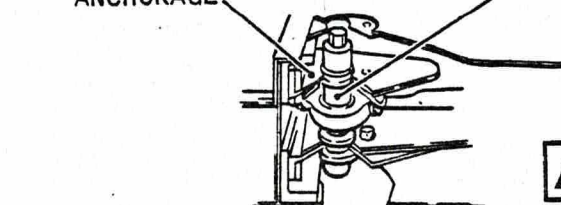
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FUSELAGE ANCHORAGE

CARE MUST BE TAKEN, WHEN FITTING THE JACK, TO ENSURE THAT THE SMALLER BUSH IS TOWARDS THE OUTSIDE SKIN.



NOTE: WITH THE PFCU IN THE NEUTRAL POSITION, IT IS ESSENTIAL THAT THE ATTACHMENT OF THE INPUT CONTROL ROD IS SUCH THAT, VIEWED ALONG THE CENTRE LINE OF THE ROD, THE FORK-ENDS ARE VISUALLY SET PARALLEL TO THE INPUT LEVER AND TO THE VALVE ACTUATING ARM RESPECTIVELY.

PFCU INSTALLATION
FIGURE 1

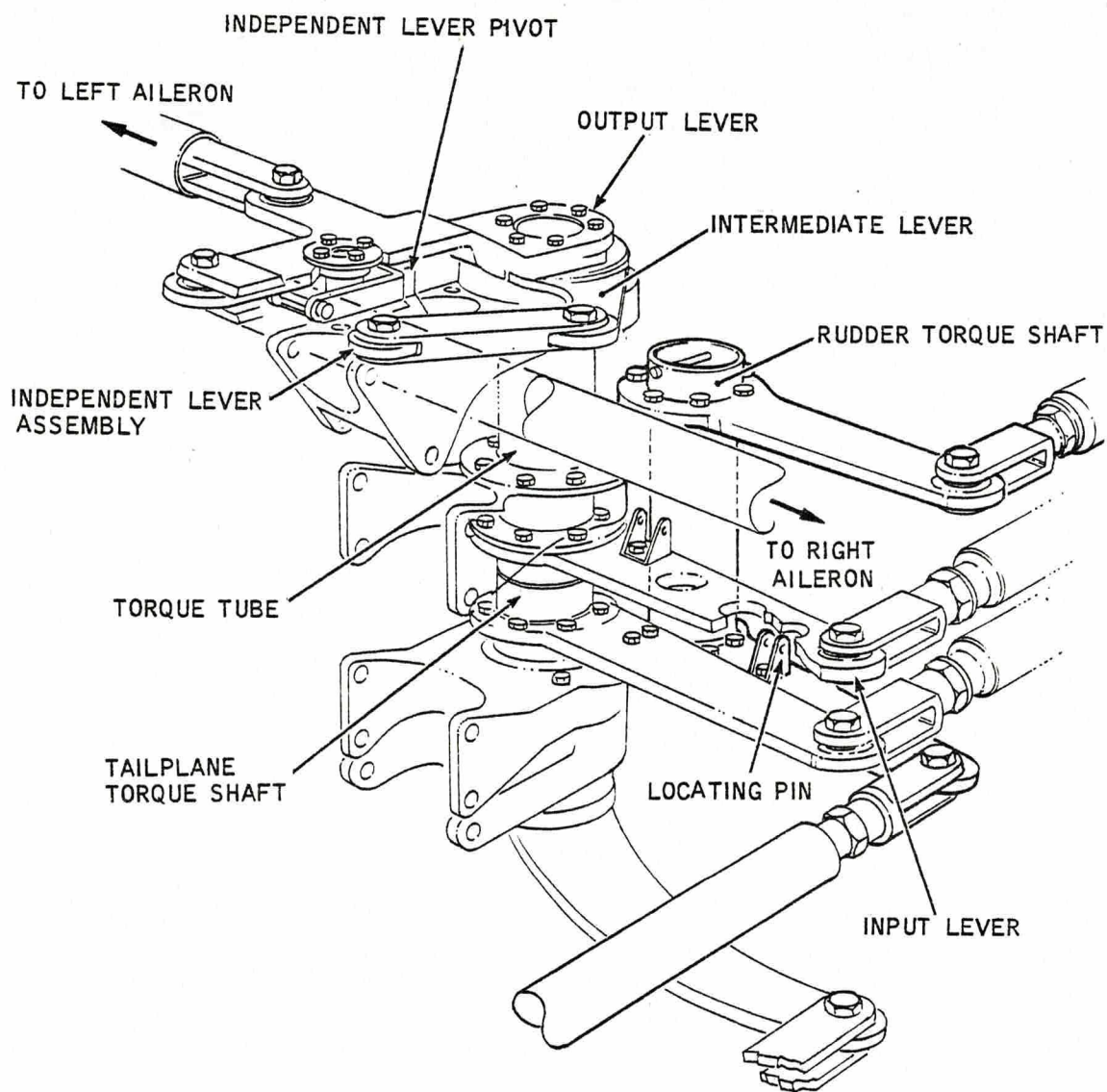
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SHEET 4 OF 5

SERVICING PROCEDURE
F53

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LOOKING INBOARD AND FORWARD

NON-LINEAR GEARING MECHANISM
FIGURE 2

Continued

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42172/43171 (INSPECTOR)

7. INSPECTION STAGE

- 7.1 Inspect installation. Independent check of
(i) Assembly and locking.
(ii) Function.

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8. COMPLETION

- 8.1 Access panel (86S) Refit.
(Right).
- 8.2 Rudder travel gauge. Remove.

NOTE: All wirelocking to be of 22 SWG stainless steel wire
unless otherwise stated.

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