

CHAP 2 AIRFRAME SP 100 AL 4 SHEET 1 OF 4	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Rudder Feel Unit - Calibrated Leak Check	AFSC 42152 43151 42172 43171	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT Pitot/Static test set Mk.3 (6C/1042139). Tyre inflation rig (4G/1050542). NOTE: During this servicing procedure No.2 engine hatch or jury must be fitted at all times. <u>43151</u>		ASSOCIATED PROCEDURES SP115A or 115B (AF) 603 (AF) 57 (AF)
1. PREPARATION		
1.1 Aircraft.	(i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at FR 59.	
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2. PREPARATION		
2.1 Ground air charging/ release connexion (Access panel 63P (left)).	Remove blank.	
2.2 Services system hydraulic pressure.	Release pressure by operating brake lever.	
2.3 Hydraulic test trolleys.	(i) Prime. (ii) Bleed.	
2.4 No.1 Services ground test connexions; (Access panel 45P (left)).	Connect hydraulic test trolleys.	
2.5 No.1 Controls ground test connexions (Access panel 45P (left)).	Connect hydraulic test trolleys.	
2.6 Hydraulic reservoirs (Services and No.1 Controls system)).	Replenish (SP 603(AF)).	
2.7 Tyre inflation rig (4G/1050542).	(i) Connect to ground/air charging/release connexion. (ii). Set rig to deliver a pressure of between 16 and 18 lbf/in2.	
		Continued Overleaf
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SERVICING PROCEDURE
F53 T55

BAC F53 & T55 (SA)
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2. PREPARATION (Contd)

- 2.8 Access panel 82S (right). Remove.
- 2.9 Feel unit flexible drain pipe (Access panel 82S (right)).
- (i) Disconnect at stringer mid-way between FR 56 and 57.
 - (ii) Position pipe outboard through access aperture.
 - (iii) Blank off mating aircraft rigid pipe.

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3. PREPARATION

- 3.1 Pitot/Static test set Mk.3 Connect.

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4. PREPARATION

- 4.1 External d.c. power supplies.
- (i) Connect.
 - (ii) Switch on.
- 4.2 External a.c. power supplies.
- (i) Connect.
 - (ii) Switch on.
- 4.3 Instrument master switch. Set to on.
- 4.4 Undercarriage selector. Ensure set to DOWN.
- 4.5 Feel sector. Set to OFF.
- 4.6 Trim switches. Set to neutral.
- 4.7 Main undercarriage. Ensure ground locks fitted.
- 4.8 Nose undercarriage. Remove ground lock.
- 4.9 Pitot/Static system. Pressurize to equivalent of 165 Kt.
- 4.10 Undercarriage selector. Select to UP.
- 4.11 Nose undercarriage. Raise, using test trolley hand pump until indicator lamp is out.
- 4.12 Services system. Pressurize to 3000 lbf/in2.

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4. PREPARATION (Contd)

4.13 No.1 Controls system. Pressurize to 3000 lbf/in2.

5. PREPARATION

5.1 Pitot/Static system. Simulate and maintain pressure equivalent to 470 Kt.

6. CALIBRATED LEAK CHECK

6.1 Feel Sector. Set to ON.

NOTE: In Sub-Item 6.2 it is important that the time is measured accurately.

6.2 Feel unit flexible drain pipe (Access panel 82S (right)).

- (i) Allow hydraulic fluid to drain outboard until flow is consistent.
- (ii) Insert pipe into suitable container and collect drained fluid for a period of one minute.
- (iii) Measure quantity of fluid collected in one minute period.
- (iv) Dispose of fluid collected.
- (v) Repeat items (i) (ii) and (iii).
- (vi) Ensure that quantity of fluid collected in operation (ii) and (iii) does not exceed 60cc.

6.3 Feel selector. Set to off.

NOTE: Sub-Item 6.4 is applicable only if quantity of fluid measured in sub-item 6.2 exceeds 60cc in a one minute period.

6.4 Rudder feel unit. Replace (SP 57(AF)).

6.5 Undercarriage selector. Set to DOWN.

6.6 Hydraulic test trolleys. Stop.

6.7 Tyre inflation rig. Release pressure.

6.8 Services and No.1 Controls system accumulators. Release fluid pressure.

Continued Overleaf

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6. CALIBRATED LEAK CHECK (Contd)

6.9 Services system reservoir. Replenish (SP 603(AF)).

6.10 Feel unit flexible drain pipe (Access panel 82S(right)).

- (i) Remove blank from rigid pipe.
- (ii) Connect drain pipe.
- (iii) Tighten and wirelock.

7. TEST

7.1 Rudder feel system. Carry out interaction check (SP 115A or B(AF)).

8. COMPLETION

8.1 Undercarriage ground safety locks. Fit.

8.2 Hydraulic test trolleys. Remove.

8.3 Ground equipment.

- (i) Operate to lower aircraft.
- (ii) Remove from vicinity of aircraft.

8.4 Tyre inflation rig.

- (i) Disconnect at ground/air charging/release connexion.
- (ii) Fit blank and wirelock.

8.5 Hydraulic pump quick release connexions (Services and No.1 controls Access panel 45P (left)).

- (i) Reconnect to aircraft.
- (ii) Wirelock.

8.6 Hydraulic reservoirs. Replenish (SP 603(AF)).

8.7 Access panel 82S (right). Refit.

8.8 Pitot/Static test set.

- (i) Release all pressure.
- (ii) Remove.

8.9 Instrument master switch. Set to OFF.

8.10 Battery master switch. Set to OFF.

8.11 External a.c. power supplies.


- (i) Switch OFF.
- (ii) Disconnect.

8.12 External d.c. power supplies.

- (i) Switch OFF.
- (ii) Disconnect.

NOTE: All wirelocking to be 22 SWG stainless steel locking wire.

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