

CHAP 2 AIRFRAME SP 105 A L 4 SHEET 1 OF 6	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Wheel Brakes - Functional Check	AFSC	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.	43151 42152 43171 42172	
SPECIAL TOOLS AND EQUIPMENT		ASSOCIATED PROCEDURES
Canopy seal guards F53 (26DK/95129 - Left). Canopy seal guards F53 (26DK/95130 - Right). Canopy seal guards T55 (26DK/95252 - Left). Canopy seal guards T55 (26DK/95253 - Right). Turner adapter O-3500 lb/in ² - quantity 2 (4G/1050381). Locating Pin (26DK/95127). Tyre inflation rig (4G/1050542).		SP 602 (AF) 603 (AF)
<u>43151</u>		
1. PREPARATION		
1.1 Aircraft.	(i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at FR.59.	
<u>43151 / 42152</u>		
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 & No.1 controls).	Replenish (SP 603(AF)).	
2.7 Hydraulic accumulators (Services & No.1 controls).	Check pressure (SP 602(AF)).	
		Continued Overleaf

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2. PREPARATION (Contd)

2.8 Tyre inflation rig (4G/1050542) (i) Connect to ground air charging/release connexion (Access panel 63P(left)).
(ii) Set rig to deliver a pressure of between 16 and 18 lbf/in².

2.9 Canopy seal guards. Fit.

2.10 Access panels 20S (Right) - (T55)
26S (Right) - (F53). Remove.

2.11 Test connexions (Left and right on undercarriage legs). Remove blanks.

2.12 Turner adapters (4G/1050381) and gauges (0-3500 lbf/in²). Fit to test connexions on undercarriage legs.

3. TESTING

3.1 No.1 Services and No.1 controls hydraulic systems. Pressurize to 3000 lbf/in².

3.2 Vertical torque shaft (Access:
Panel 26S (Right) - (F53),
20S (Right) - (T55). Fit locating pin in rudder control system.

3.3 Rudder. Ensure correct setting to aircraft log card.

3.4 Vertical torque shaft. Remove locating pin.

NOTE: Sub-items 3.5 to 3.23 inclusive must be repeated using pupil's controls on T55 aircraft.

3.5 Pilot's brake lever (See Fig.1). (i) Screw brake lever stop fully down until flush.
(ii) Set brakes to ON and record brake pressure reading indicated at wheels.
(iii) Adjust brake lever stop upwards gradually until a brake pressure of 1500 PLUS 150 MINUS 150 lbf/in² is attained.

Continued

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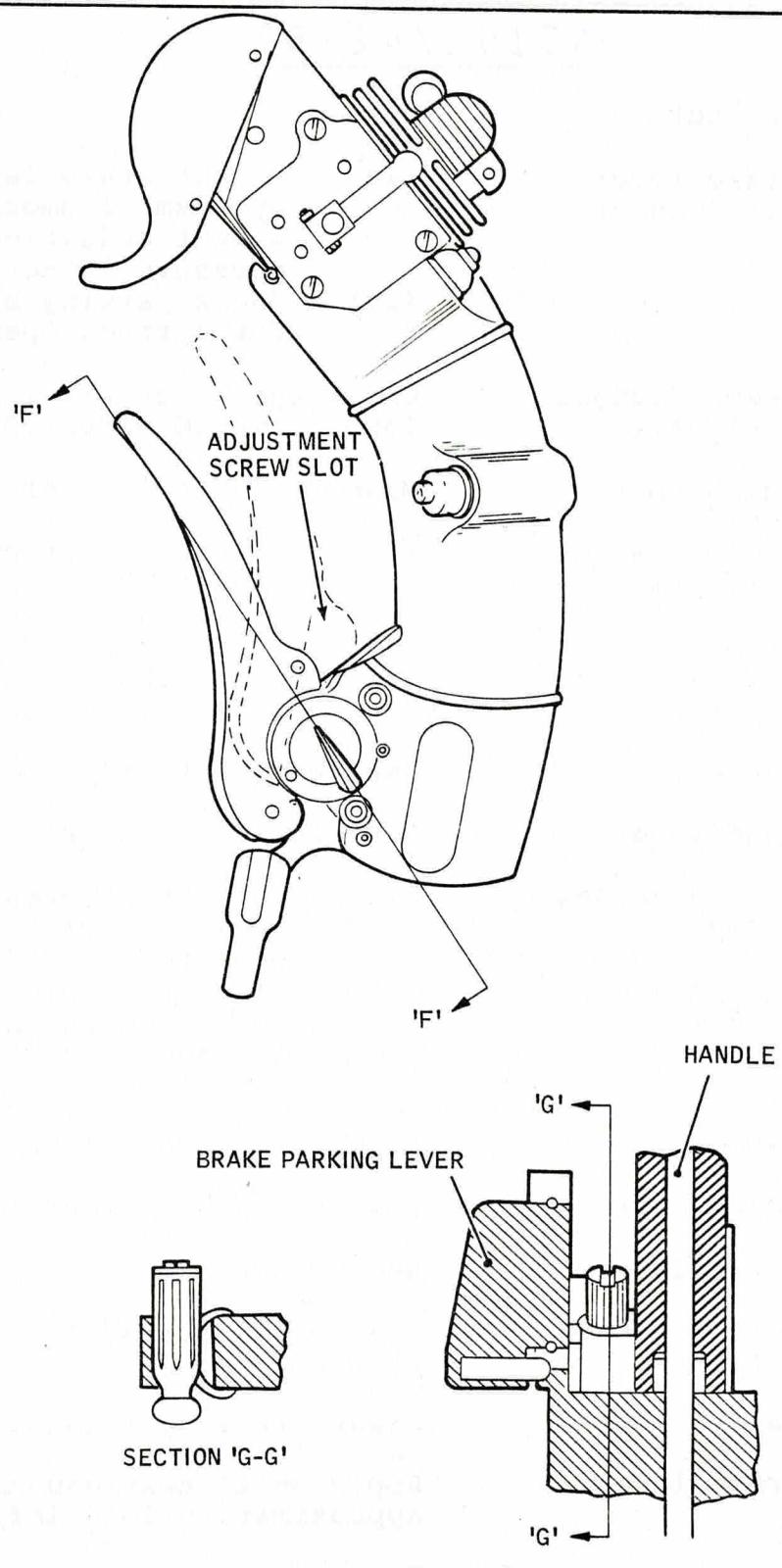


FIGURE 1

Continued Overleaf

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SERVICING PROCEDURE

F53

T55

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3. TESTING (Contd)

3.5 Pilot's brake lever (See Fig.1) (Contd)

(iv) Adjust brake lever stop up by a small amount until a slight reduction of brake pressure is noted.

(iv) Check parking brake catch for correct operation.

3.6 Test connexion gauges (Left and right). Check that pressure indicated is 1500 PLUS 150 MINUS 50 lbf/in².

3.7 Pilot's rudder bar. Move fully to the left.

3.8 Test connexion gauges (Left and right).

(i) Check that pressure indicated on the left gauge is 1500 PLUS 150 MINUS 50 lbf/in².

(ii) Check that pressure indicated on the right gauge is zero.

3.9 Right mainwheel. Ensure free to rotate.

3.10 Pilot's rudder bar. Move fully to the right.

3.11 Test connexion gauges (Left and right).

(i) Check that pressure indicated on the left gauge is zero.

(ii) Check that pressure indicated on the right gauge is 1500 PLUS 150 MINUS 50 lbf/in².

3.12 Left mainwheel. Ensure free to rotate.

3.13 Pilot's rudder bar. Move to neutral position.

3.14 Pilot's brake lever. Set to OFF.

3.15 Test connexion gauges (Left and right). Check that pressure indicated is zero.

3.16 Mainwheels. Ensure free to rotate.

3.17 Pilot's brake lever. Apply until test gauges register approximately 1000 lbf/in².

3.18 Test connexion gauges (Left and right). Ensure gauges indicate within 100 lbf/in² of each other.

Continued

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SERVICING PROCEDURE

F53 T55

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3. TESTING (Contd)

3.19 Pilot's brake lever. Apply fully.

3.20 Test connexion gauges (Left and right). Ensure gauges indicate within 150 lbf/in² of each other.

3.21 Pilot's brake lever. Set to OFF.

3.22 Control column.

- (i) Move to extreme left position.
- (ii) Ensure mainwheels rotate freely.
- (iii) Move to extreme right position.
- (iv) Ensure mainwheels rotate freely.
- (v) Move to extreme forward position.
- (vi) Ensure mainwheels rotate freely.
- (vii) Move to extreme aft position.
- (viii) Ensure mainwheels rotate freely.

NOTE: In Sub-item 3.23 the control column must be moved to 12 different extreme positions using the clock method.

3.23 Control column.

- (i) Move to extreme position.
- (ii) Apply brakes.
- (iii) Allow to centralize.
- (iv) Release brakes.
- (v) Ensure mainwheels rotate freely.
- (vi) Repeat Operations (i) to (v) inclusive for remaining 11 positions.

3.24 No.1 Services & No.1 Controls system hydraulic servicing trolleys. Stop.

3.25 Canopy seal guards. Remove.

3.26 Services system hydraulic accumulator. Release pressure by operating canopy open and closed.

3.27 Brake control lever.

- (i) Operate on and off at a rate not exceeding 1 operation in 5 secs and leave in OFF position for 3 secs between applications.

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3. TESTING (Contd)

3.27 Brake control lever (contd). (ii) Ensure a minimum of 10 complete cycles are available as indicated at test connexion pressure gauges.

43171/42172 (INSPECTORS)

4. INSPECTION STAGE

4.1 Inspect. After component replacement or if the system has been disassembled.

43151/42152

5. COMPLETION

5.1 Hydraulic servicing trolleys. Remove.

5.2 Turner adapters and pressure gauges. Remove.

5.3 Test connexions (Left and right undercarriage legs). (i) Fit blanks. (ii) Wirelock.

5.4 Hydraulic pump quick release connexions (Services and No.1 controls systems; access panel 45P (left)). (i) Reconnect to aircraft. (ii) Wirelock.

5.5 Hydraulic reservoirs (Services and No.1 Controls). Replenish (SP 603(AF)).

5.6 Tyre inflation rig (4G/1050542). (i) Disconnect at ground air charging/release connexion (Access panel 63P (left)). (ii) Refit blank and wirelock.

5.7 Canopy seal guards. Refit.

5.8 Access panels 26S (right-F53), 20S (right-T55). Refit.

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6. COMPLETION

6.1 Aircraft. Lower off jacks and trestles.

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

A close-up photograph of the side of an aircraft. The surface is made of light-colored metal panels with a grid of circular rivets. A vertical strip of orange-yellow material, possibly insulation or a repair panel, is visible on the right side. The lighting is dramatic, with a bright light source on the left creating strong highlights and shadows.

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