

CHAP 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 106 AL 4	F53 T55	5A3A Section 1
SHEET 1 OF 5		2nd Edition

Undercarriage Normal Retraction	AFSC	TIME EST
	43151 42152	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.	43171 42172	

<p>SPECIAL TOOLS AND EQUIPMENT</p> <p>Pitot/Static test set Mk 3 (6C/1042139). Tyre inflation rig (4G/1050542). 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).</p> <p>NOTE: During this servicing procedure No.2 engine hatch or jury strut must be fitted at all times.</p> <p style="text-align: center;"><u>43151</u></p> <p>1. PREPARATION</p> <p>1.1 Aircraft. (i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at FR 59.</p> <p style="text-align: center;"><u>43151/42152</u></p> <p>2. PREPARATION</p> <p>2.1 Ground air charging/release connexion (Access panel 63P (left)). Remove blank.</p> <p>2.2 Services system hydraulic pressure. Release pressure by operating brake lever.</p> <p>2.3 Hydraulic test trolley. (i) Prime. (ii) Bleed.</p> <p>2.4 No.1 Services ground test connexions. (Access panel 45P(left)). Connect hydraulic test trolley.</p> <p>2.5 Hydraulic services reservoir. Replenish (SP 603(AF)).</p> <p>2.6 Tyre inflation rig (4G/1050542). (i) Connect to ground air charging/release connexion (Access panel 63P (left)).</p>	ASSOCIATED PROCEDURES
	SP 602 (AF) 603 (AF)

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SERVICING PROCEDURE

F53

T55

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2. PREPARATION (Contd)

2.6 Tyre inflation rig
(4G/1050542) (Contd).

(ii) Set rig to deliver a
pressure of between 16 and
18 lbf/in².

2.7 Canopy seal guards.

Ensure fitted.

2.8 Slave battery.

Fit.

2.9 Battery isolating switch.

Set to ON.

2.10 Pitot/Static test set.

Connect.

2.11 Armament safety break.

(i) Remove from lanyard.
(ii) Stow lanyard and flag in
stowing pocket.

2.12 Undercarriage toggle switch.

Ensure set to DOWN.

2.13 Undercarriage ground locks.

Remove.

3. TESTING

3.1 Services system.

Pressurize to 3000 lbf/in².

3.2 Nose undercarriage.

Ensure aligned fore and aft.

3.3 Pitot/Static system.

Pressurize to an equivalent of
165 Kt.

3.4 Undercarriage toggle
switch.

Set to UP.

3.5 Undercarriage.

Check that time taken for main
undercarriage to retract does not
exceed 7.5 seconds.

3.6 Undercarriage indicator
lamps (F53: quantity 3,
T55: quantity 6).

Ensure lit RED whilst under-
carriage is unlocked and
extinguished when undercarriage is
locked UP.

3.7 Fairing and Doors.

(i) Ensure operating correctly.
(ii) Ensure flush fitting when
retracted.

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SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES
INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS

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3. TESTING (Contd)

3.8 Fairings and doors:

- (a) Leg fixed fairings. Check that clearance is 0.07 in PLUS 0.03 in. MINUS zero.
- (b) Aft and forward hinge flaps. Check that clearance is 0.07 in PLUS 0.03 in. MINUS zero.
- (c) Nose undercarriage. Check that clearance is 0.05 in PLUS 0.025 in. MINUS zero.
- (d) Wheel compartment doors. Check that clearance is 0.07 in PLUS 0.060 in. MINUS zero.
- (e) Flap engaging claws. Ensure in light contact with the flap by rattling slightly when applying hand pressure.

3.9 Fairings and doors:

- (a) Leg fixed fairings. (i) Check that leading edge is inset a minimum of 0.03 in. inside mainplane contour.
- (b) Aft and forward hinged flaps. (ii) Check that trailing edge is flush with mainplane contour (At no point are trailing edges to be inside skin contour).
- (c) Wheel compartment doors

3.9 Undercarriage toggle switch. Set to DOWN

3.10 Undercarriage. Check that time for main undercarriage to lower does not exceed 6.5 seconds and that time for complete undercarriage to lock down does not exceed 16 seconds.

3.11 Undercarriage indicator lamps (F53 : quantity 3, T55 : quantity 6). Ensure lit RED whilst undercarriage is unlocked and GREEN when undercarriage is locked DOWN.

43171/42172 (INSPECTOR)

4. INSPECTION STAGE

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

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INDEPENDENT CHECKS

NOTE: The independent checks detailed in this item are to ensure that the undercarriage hydel selector slide valve is correctly positioned and must be carried out personally by specialist inspectors who have not been directly concerned with the operations detailed in this Servicing Procedure.

- 5.1 Undercarriage toggle switch. Ensure set to DOWN.
- 5.2 Services system. Pressurize to 3000 lbf/in2.
- 5.3 Undercarriage indicator lamps (green) (F53: quantity 3, T55: quantity 6). Ensure lit.
- 5.4 Undercarriage ground locks. Fit.
- 5.5 Aircraft job card. Endorse as follows:
Certified I have personally carried out the independent checks detailed in Servicing Procedures BAC F53 & T55 (SA) 5A3A Section 1, SP 106(AF).

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6. COMPLETE

- 6.1 Pitot/Static test set. (i) Release pressure.
(ii) Remove.
- 6.2 Services system. Release pressure by operating brake lever.
- 6.3 Battery isolating switch. Set to OFF.
- 6.4 Slave battery. Remove.
- 6.5 Ground equipment. (i) Operate to lower aircraft to ground.
(ii) Remove from vicinity of aircraft.
- 6.6 Tyre inflation rig (4G/1050542). (i) Disconnect at ground air charging/release connexion.
(ii) Fit blank and wirelock.

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6. COMPLETE (Contd)

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|------|---|--|
| 6.7 | Hydraulic test trolley. | (i) Disconnect.
(ii) Remove. |
| 6.8 | Hydraulic pump quick release connexions (Services access panel 45P (Left)). | (i) Reconnect to aircraft.
(ii) Wirelock. |
| 6.9 | Hydraulic reservoirs. | Replenish (SP 603(AF)). |
| 6.10 | Access panels. | Refit. |
| 6.11 | Canopy seal guards. | Remove. |
| 6.12 | Armament safety break. | (i) Remove flag and lanyard from stowage.
(ii) Reconnect lanyard. |

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

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