

CHAP 2 AIRFRAME SP 106 AL 4 SHEET 1 OF 5	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Undercarriage Normal Retraction	AFSC	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.	43151 42152 43171 42172	
<b>SPECIAL TOOLS AND EQUIPMENT</b>		
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).		
<b>NOTE:</b> During this servicing procedure No.2 engine hatch or jury strut must be fitted at all times.		
<u>43151</u>		
<b>1. PREPARATION</b>		
<b>1.1 Aircraft.</b>		
(i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at FR 59.		
<u>43151/42152</u>		
<b>2. PREPARATION</b>		
<b>2.1</b> Ground air charging/ release connexion (Access panel 63P (left)).		
Remove blank.		
<b>2.2</b> Services system hydraulic pressure.		
Release pressure by operating brake lever.		
<b>2.3</b> Hydraulic test trolley.		
(i) Prime. (ii) Bleed.		
<b>2.4</b> No.1 Services ground test connexions. (Access panel 45P(left)).		
Connect hydraulic test trolley.		
<b>2.5</b> Hydraulic services reservoir.		
Replenish (SP 603(AF)).		
<b>2.6</b> Tyre inflation rig (4G/1050542).		
(i) Connect to ground air charging/release connexion (Access panel 63P (left)).		
<b>Continued Overleaf</b>		

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

Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

43151/42152

2. PREPARATION (Contd)

2.6 Tyre inflation rig (4G/1050542) (Contd). (ii) Set rig to deliver a pressure of between 16 and 18 lbf/in<sup>2</sup>.

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/in<sup>2</sup>.

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 undercarriage is unlocked and extinguished when undercarriage is locked UP.

3.7 Fairing and Doors. (i) Ensure operating correctly.  
(ii) Ensure flush fitting when retracted.

Continued

CHAP 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 106 AL 6	F53 T55	5A3A Section 1
SHEET 3 OF 5		2nd Edition

Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

43151/42152

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

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.

Continued Overleaf

CHAP 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 106 AL 6	F53	T55
SHEET 4 OF 5		5A3A Section 1 2nd Edition

Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

43171/42172 (INSPECTOR)

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/in<sup>2</sup>.

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).

43151/42152

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.

Continued

CHAP. 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
S.P. 106 A.L. 6	F53	5A3A Section 1
SHEET 5 OF 5		2nd Edition

Safety and Servicing Notes are to be complied with  
throughout the work detailed on this card.

43151/42152

6. COMPLETE (Contd)

6.7 Hydraulic test trolley. (i) Disconnect.  
(ii) Remove.

6.8 Hydraulic pump quick (i) Reconnect to aircraft.  
release connexions (ii) Wirelock.  
(Services access panel  
45P (Left)).

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

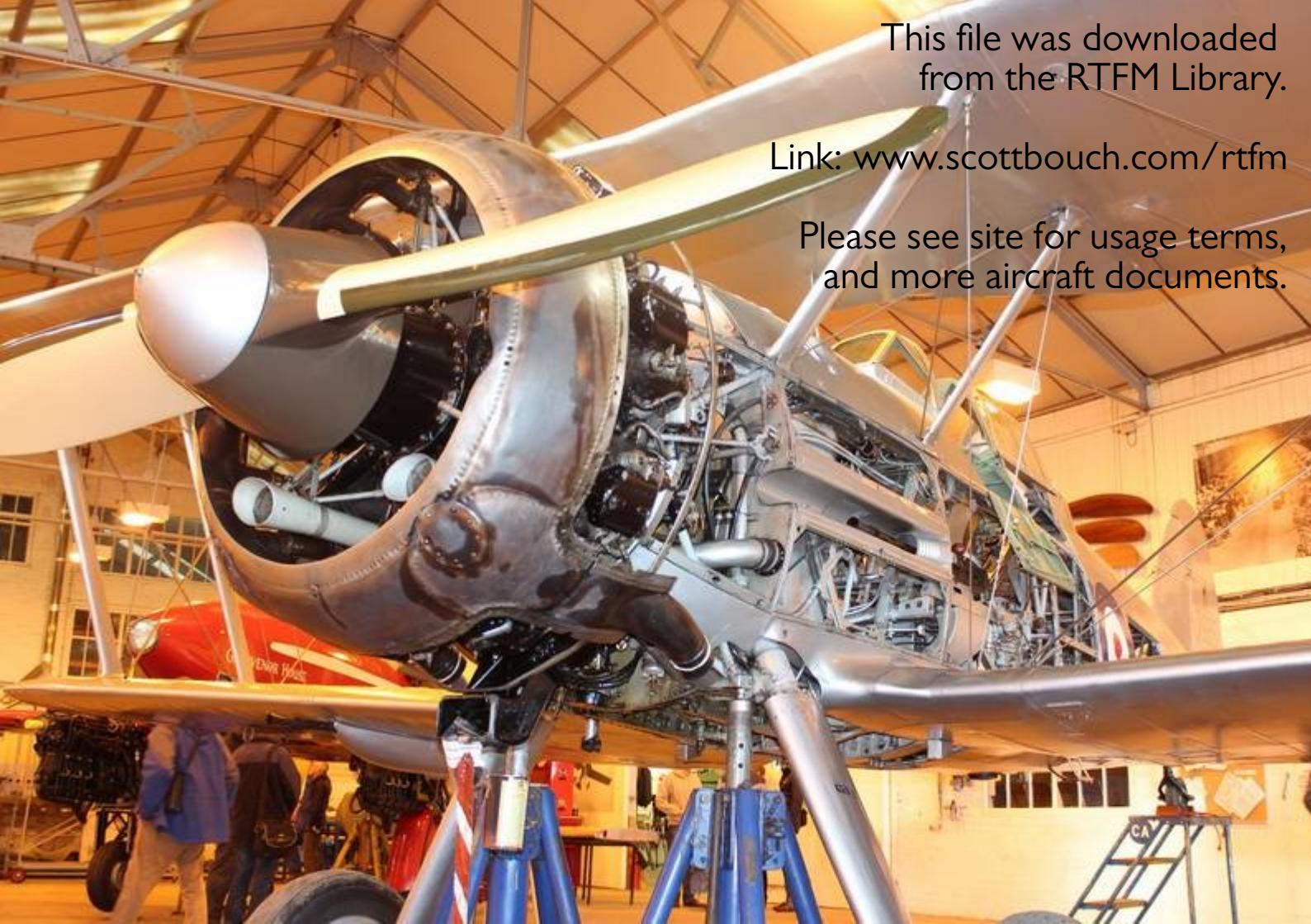
6.10 Access panels. Refit.

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.



A large propeller aircraft, likely a Douglas C-47 Skytrain, is displayed in a museum hangar. The aircraft is positioned on a blue hydraulic lift, with its front landing gear extended. The engine and propeller are visible on the left side. The interior of the aircraft is partially open, showing the cockpit and the engine compartment. The aircraft is surrounded by museum exhibits, including a red and white airplane in the background and various informational displays. The hangar has a high ceiling with exposed structural beams and lighting fixtures.

This file was downloaded  
from the RTFM Library.

Link: [www.scottbouch.com/rtfm](http://www.scottbouch.com/rtfm)

Please see site for usage terms,  
and more aircraft documents.