

CHAP 2 AIRFRAME SP 124 AL 1 SHEET 1 OF 5	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Front Fuselage Air Systems	AFSC 42251 43151	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT		ASSOCIATED PROCEDURES
Trailer air supply, Hampson 490.D. (4F/NIV).		
<u>42251 / 43151</u>		
<p>1. PREPARATION</p> <p>1.1 Access Panel 149S (right) Remove.</p> <p>1.2 Ground test point.</p> <p style="margin-left: 20px;">(a) Spring locking pin. }</p> <p style="margin-left: 20px;">(b) Blanking cap. }</p> <p>1.3 Air pressure test rig. (i) Connect. (ii) Ensure lock indicated.</p>		
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<p>2. PREPARATION</p> <p>2.1 Cockpit Ensure circuits are intact.</p> <p>2.2 Battery isolation switch Set to ON.</p> <p>2.3 Standby generator switch Ensure set to NORMAL.</p> <p>2.4 Generator warning light (standard warning panel). }</p> <p>2.5 Main generator light (auxiliary warning panel). }</p> <p>2.6 Alternator turb. warning light. }</p> <p>2.7 Alternator failure warning light. }</p>		
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3. PREPARATION

3.1 Cabin conditioning.
3.2 Rain dispersal intake anti-icing.
3.3 Cabin demister.

}

Set to OFF.

NOTE: Sub-item 3.4 is applicable only if No. 1 engine is removed.

3.4 No. 1 engine to main ducting connexion. Blank.

NOTE: Sub-item 3.5 is applicable only if No. 2 engine is removed.

3.5 No. 2 engine to main ducting connexion. Blank.

NOTE: Sub-item 3.6 is applicable only if No. 1 jet pipe nozzle is removed.

3.6 Jet pipe nozzle air motor. Blank at Frame 62 (left).

3.7 AMCU feed. Blank at Access Panel 76 P (left).

NOTE: Sub-item 3.8 is applicable only if No. 2 jet pipe nozzle is removed.

3.8 Jet pipe nozzle motor. Blank at Frame 62 (right).

3.9 AMCU feed. Blank at Access Panel 76 S (right).

4. TESTING

4.1 Air pressure test rig delivery. Ensure set to OFF.

4.2 Air pressure test rig. (i) Start.
(ii) Set to IDLE.

4.3 Air pressure test rig main air switch. Set to ON.

4.4 Main air turbine exhaust. Check that air discharges.

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SERVICING PROCEDURE
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5. TESTING

5.1 Generator warning light. }
5.2 Alternator warning light. } Ensure extinguished.

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6. TESTING

6.1 Canopy seal pressure gauge. Check reading (approximately 40 lbf/in²).

6.2 Air intake anti-icing. Set to ON.

6.3 Air intake slots. Check air issues freely.

6.4 Air intake anti-icing. Set to OFF.

NOTE: Time taken to complete Sub-items 6.5 to 6.7 inclusive must be kept to the absolute minimum because of detrimental effect of hot air impinging on the windscreen under static conditions.

6.5 Windscreen rain dispersal. Set to ON.

6.6 Rain dispersal fish tail outlet. Check air issues freely.

6.7 Windscreen rain dispersal. Set to OFF.

NOTE: Throughout the tests detailed in Sub-items 6.8 to 6.14 inclusive the canopy must remain in the open or partially open position.

6.8 Cabin demisting lever. Set to TOP ON.

6.9 Canopy top panel breakaway bellows on pressure bulkhead. Check for free flow of air.

6.10 Windscreen side panels. Check for restricted flow of air.

6.11 Cabin demisting lever. Set to ALL ON.

Continued Overleaf

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6. TESTING (contd)

6.12 Canopy top panel breakaway bellows on pressure bulkhead. Check for free flow of air and no change from that noted in Sub-item 6.9.

6.13 Windscreen side panels. Check full un-restricted flow of air.

6.14 Cabin demisting lever. Set to OFF.

NOTE: The total time taken to complete Sub-items 6.15 to 6.23 inclusive is not to exceed 1 (one) minute.

6.15 Cabin air. (i) Set to ON.
(ii) Pause for approximately 20 seconds.

6.16 Cold air unit. Check for audible functioning.

6.17 Cabin diffuser pipes. Check air flows freely.

6.18 PEC Connector:-
(a) AVS plunger.
(b) Anti-G plunger. } Depress.

6.19 AVS flow control valve. Operate fully open.

6.20 PEC connector. Ensure air flow responds to selection.

6.21 Anti-G valve:-
(a) Selector.
(b) Test button. Set to ON.
Press.

6.22 PEC connector. Ensure air flowing.

6.23 Cabin air. (i) Set to OFF.
(ii) Check air flow ceases at diffuser pipes within 3 seconds.

7. GENERAL

7.1 Air pressure test rig. (i) Set to IDLE.
(ii) Stop.
(iii) Disconnect.

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7. GENERAL (contd)

7.2 Ground test point. (i) Fit blanking cap.
(ii) Lock cap lever.
(iii) Fit spring locking pin.

7.3 Access Panel 149 S (right). Fit.

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8. GENERAL

8.1 Battery isolation switch. Set to OFF.

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