

CHAP 2 AIRFRAME SP 117B AL 4 SHEET 1 OF 5	SERVICING PROCEDURE T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Air-Ventilated Suit And Anti-G System Check		AFSC 42251
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		TIME EST
SPECIAL TOOLS AND EQUIPMENT		
Air supply trolley (4G/4272). Tyre inflation rig (4G/1050542). Gauge 0-15 lbf/in ² (quantity 2) (4G/5809). PEC Adapter (Locally manufactured).		
<p>NOTE: In this servicing procedure if the radar head is removed or incomplete, the pressure pipe must be disconnected and blanked off at a point between the forward pressure bulkhead and the pressure reducing valve.</p>		
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<p>1. PREPARATION</p> <p>1.1 Test point for air-ventilated suit and anti-G system (Access panel 14P). (i) Remove blank. (ii) Connect tyre inflation rig (4G/1050542).</p> <p>1.2 Air supply trolley (4G/4272). Connect to tyre inflation rig.</p> <p>1.3 Radar bullet pressurization test point (Forward equipment bay FR 5 (left)). Ensure blank fitted.</p>		
<p>2. AIR-VENTILATED SUIT SYSTEM TEST (LEFT SUIT CHECK)</p> <p>2.1 Tyre inflation rig Set to deliver 30 lbf/in² (4G/1050542) (Access panel 14P(left)).</p> <p>2.2 PEC test adapter. Fit to left seat.</p> <p>2.3 Air-ventilated suit flow controller. (i) Operate control knob. (ii) Ensure flow at PEC adapter responds to selection.</p> <p>2.4 Tyre inflation rig (4G/1050542). Shut off air supply.</p> <p>2.5 PEC test adapter (Left seat). Connect 0-15 lbf/in² pressure gauge (4G/5809) to AVS outlet.</p>		
Continued Overleaf		

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2. AIR-VENTILATED SUIT SYSTEM TEST (LEFT SUIT CHECK) (Contd)

2.6 Left seat AVS reducing valve datum vent (See Fig.1). Seal off using a strip of metal faced with rubber.

2.7 Tyre inflation rig (4G/1050542). (i) Turn on air supply. (ii) Adjust delivery pressure to 20 lbf/in².

2.8 PEC test adapter gauge (Left seat). Ensure gauge reading is not in excess of 13 lbf/in².

NOTE: Sub-item 2.9 must be carried out simultaneously with sub-item 2.10.

2.9 Tyre inflation rig (4G/1050542). Adjust delivery pressure to 40, 60 and 80 lbf/in² in turn.

2.10 PEC test adapter gauge (Left seat). Ensure gauge indication never exceeds 13 lbf/in².

2.11 Tyre inflation rig (4G/1050542). Shut off air supply.

2.12 Left seat reducing valve datum vent (See Fig.1). Remove strip of metal.

2.13 Tyre inflation rig (4G/105042). (i) Turn on air supply. (ii) Adjust delivery pressure to 20 lbf/in².

2.14 PEC test adapter (Left seat). Ensure gauge reading is between 5 and 7 lbf/in².

NOTE: Sub-item 2.15 must be carried out simultaneously with sub-item 2.16.

2.15 Tyre inflation rig (4G/1050542). Adjust delivery pressure to 40, 60 and 80 lbf/in² in turn.

2.16 PEC test adapter gauge (Left seat). Ensure indicating between 5 and 7 lbf/in².

2.17 Tyre inflation rig (4G/1050542). Shut off air supply.

2.18 PEC test adapter (Left seat). Remove.

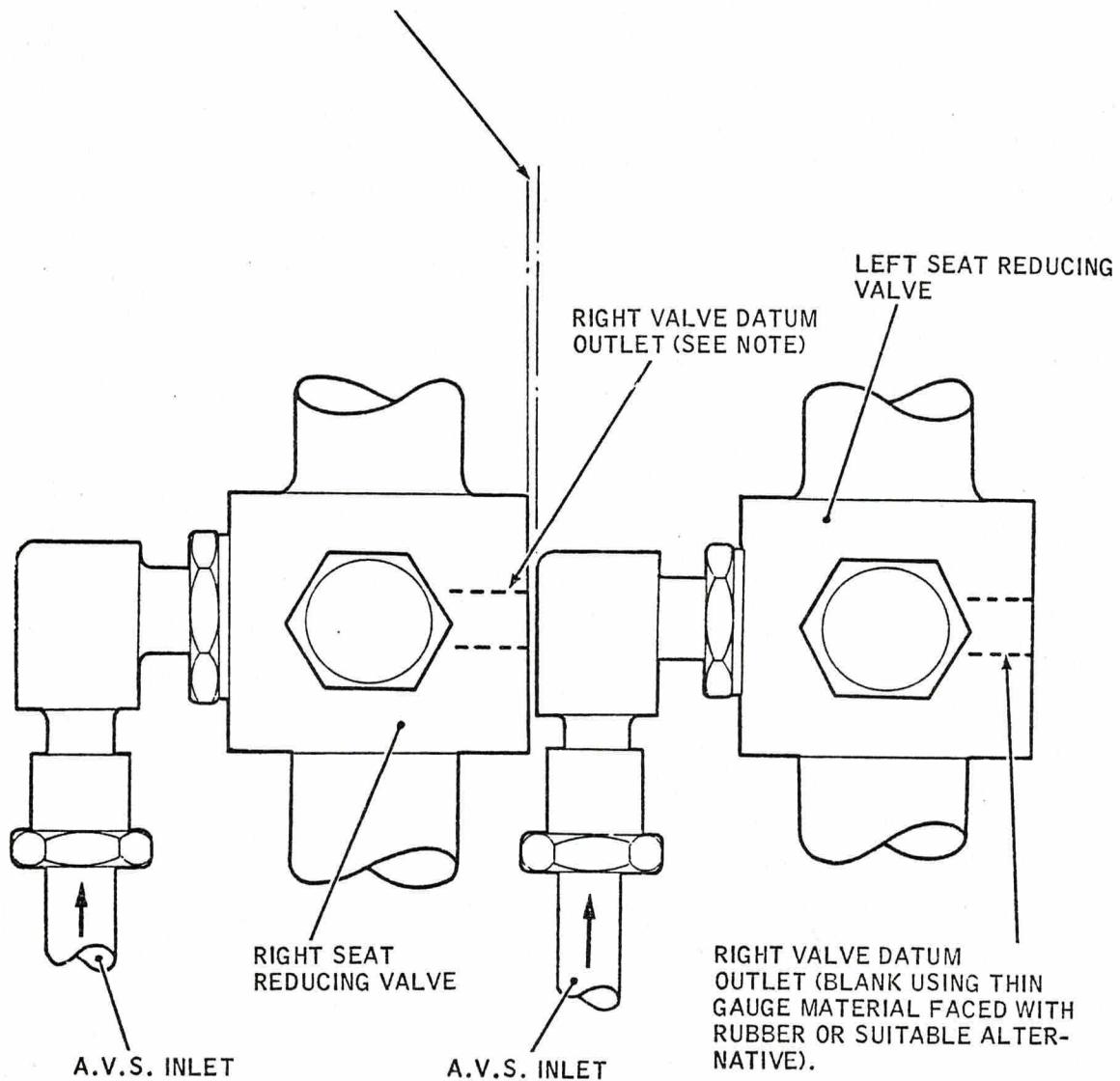
NOTE: Repeat sub-items 2.1 to 2.18 inclusive for air ventilated suit system test (right suit).

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4 2 2 5 1		
3. ANTI-G SYSTEM TEST (LEFT SUIT)		
3.1 Left and right seat anti-G stop valves.		Ensure set to OFF.
3.2 PEC test adapter.	(i) Fit to left seat. (ii) Connect 0-15 lbf/in ² gauge (4G/5809) to anti-G outlet.	
3.3 AVS flow controller (right console).		Ensure set to closed.
3.4 Air supply trolley.		Turn on air supply.
3.5 Tyre inflation rig (4G/1050542).		Adjust delivery pressure to 20 lbf/in ² .
3.6 PEC test adapter gauge (Left seat).		Ensure indicating zero.
NOTE: Sub-item 3.7 must be carried out simultaneously with sub-item 3.8.		
3.7 Tyre inflation rig (4G/1050542).		Adjust delivery pressure to 40, 60 and 80 lbf/in ² in turn.
3.8 PEC test adapter gauge (Left seat).		Ensure indication remains at zero.
3.9 Tyre inflation rig.		Adjust delivery pressure to 20 lbf/in ² .
3.10 Left anti-G valve control.		Set to ON.
3.11 Left anti-G valve test button.		Press.
NOTE: The pressure indicated in sub-item 3.12 will be directly related to the force applied at sub-item 3.11.		
3.12 PEC test adapter gauge (Left seat).		Ensure pressure registered does not exceed 10.5 lbf/in ² .
3.13 Anti-G valve.	(i) Release test button. (ii) Ensure pressure gauge registers zero immediately.	
3.14 Tyre inflation rig. (4G/1050542).	(i) Adjust delivery pressure to 40, 60 and 80 lbf/in ² in turn. (ii) Repeat items 3.11 to 3.13 inclusive at each pressure.	
Continued Overleaf		
SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS		

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NOTE: A MINIMUM GAP OF 0.15 IN. EXISTS BETWEEN THESE FACES AND IS SUFFICIENT TO INTRODUCE A BLANKING MEDIUM OF THIN GAUGE MATERIAL FACED WITH RUBBER.



VIEW LOOKING AFT ON PRESSURE BULKHEAD
(BOTH VALVES IDENTICAL)

REDUCING VALVES

FIGURE 1

Continued

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3. ANTI-G SYSTEM TEST (LEFT SUIT) (Contd)

3.15 Tyre inflation rig (4G/1050542). Adjust delivery pressure to 80 lbf/in².

3.16 Anti-G valve test button. Press sufficiently hard to open the relief valve on the anti-G outlet.
NOTE: Force required on the test button will be approximately 9 lbs.

3.17 PEC test adapter gauge (Left seat). Check that reading is not in excess of 10.5 lbf/in².

3.18 Anti-G valve. (i) Release test button.
(ii) Ensure pressure gauge registers zero immediately.

3.19 Tyre inflation rig (4G/1050542). Shut off air supply.

3.20 PEC test adapter (left seat). Remove.

NOTE: Repeat sub-items 3.1 to 3.20 inclusive for anti-G system test (right suit).

4. COMPLETION

4.1 Tyre inflation rig (4G/1050542). Remove.

4.2 Test point for AVS and anti-G systems (Access panel 14P (left)). (i) Refit blank.
(ii) Wirelock.

4.3 Anti-G valve controls (Left and right). Ensure set to OFF.

4.4 Access panels. Refit.

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





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