

CHAP. 2 AIRFRAME S.P. 117A A.L. 4 SHEET 1 OF 5	SERVICING PROCEDURE F53	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition	
Air-Ventilated Suit And Anti-G System Check		AFSC 42251	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.			
SPECIAL TOOLS AND EQUIPMENT Air supply trolley (4G/4272). Tyre inflation rig (4G/1050542). Gauge (quantity 2) 0-15lbf/in2. (4G/5809). PEC Adapter (Locally manufactured). 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 (Frame 6) and the radar head system reducing valve. <div style="text-align: center;"><u>4 2 2 5 1</u></div>			ASSOCIATED PROCEDURES
1. PREPARATION 1.1 Test point for air-ventilated suit and anti-g system (access panel 26S (right)). (i) Remove blank. (ii) Connect tyre inflation rig (4G/1050542). 1.2 Air supply trolley. Connect to tyre inflation rig. 1.3 Radar bullet pressurization test point (Forward equipment bay FR 5 (left)). Ensure blank fitted. 2. AIR-VENTILATED SUIT SYSTEM TEST 2.1 Tyre inflation rig at test point (Access panel 26S (right)). Set to deliver 30 lbf/in2. 2.2 PEC test adapter. Fit to seat. 2.3 Air-ventilated suit flow controller (Right console). (i) Operate control sleeve. (ii) Ensure air flow at PEC adapter responds to selection. 2.4 Tyre inflation rig (4G/1050542). Shut off air supply. 2.5 PEC test adapter. Connect an 0 to 15 lbf/in2 pressure gauge (4G/5809).			
			Continued Overleaf
SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES. INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS			

CHAP 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 117A AL 4	F53	5A3A Section 1
SHEET 2 OF 5		2nd Edition

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

42251

2. AIR-VENTILATED SUIT SYSTEM TEST (Contd)

2.6 Air-ventilated suit flow controller. Set to fully open.

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. Ensure indication between 5 and 7 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. Ensure indicating between 5 and 7 lbf/in2.

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

2.12 Air-ventilated suit datum vent pipe
 (Located on pressure bulkhead behind left fuse box cover and under cockpit longeron). Blank off.

NOTE: Sub-item 2.13 must be carried out simultaneously with sub-item 2.14.

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

2.14 PEC test adapter gauge. Ensure not reading in excess of 13 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.

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CHAP. 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
S.P. 117A A.L. 4	F53	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.

4 2 2 5 1

2. AIR-VENTILATED SUIT SYSTEM TEST (Contd)

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| 2.16 PEC test adapter gauge. | Ensure not reading in excess of 13 lbf/in ² . |
| 2.17 Air-ventilated suit datum vent pipe. | Remove blank. |
| 2.18 Water separator and heat exchanger drains (No.2 Engine intake duct upper skin between FR 15 and 16). | Ensure air is issuing from drains. |
| 2.19 Tyre inflation rig (4G/1050542). | Shut off air supply. |
| 2.20 Air-ventilated suit flow controller. | Shut off. |

3. ANTI-G SYSTEM TEST

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| 3.1 Anti-G shut off valve. | Ensure closed. |
| 3.2 PEC test adapter. | Connect 0 to 15 lbf/in ² gauge (4G/5809). |
| 3.3 Tyre inflation rig (4G/1050542). | (i) Turn on air supply.
(ii) Adjust delivery pressure to 20 lbf/in ² . |
| 3.4 PEC test adapter gauge. | Ensure indicating zero. |
| NOTE: Sub-item 3.5 must be carried out simultaneously with sub-item 3.6. | |
| 3.5 Tyre inflation rig (4G/1050542). | Adjust delivery pressure to 40, 60 and 80 lbf/in ² in turn. |
| 3.6 PEC test adapter gauge. | Ensure indication remains at zero. |
| 3.7 Tyre inflation rig (4G/1050542). | Adjust delivery pressure to 20 lbf/in ² . |
| 3.8 Anti-G valve control. | Set to ON. |
| 3.9 Anti-G valve test button. | Press. |

Continued Overleaf

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CHAP 2 AIRFRAME
SP 117A AL 4
SHEET 4 OF 5

SERVICING PROCEDURE
F53

BAC F53 & T55 (SA)
5A3A Section 1
2nd Edition

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42251

3. ANTI-G SYSTEM TEST (Contd)

NOTE: The pressure indicated at sub-item 3.10 will be
directly related to the force applied at sub-item 3.9.

3.10 PEC test adapter gauge. Ensure indication does not exceed
10.5 lbf/in².

NOTE: Sub-item 3.11 must be carried out simultaneously with
sub-item 3.12.

3.11 Anti-G valve test button. Release.

3.12 PEC test adapter gauge. Ensure indicating zero.

3.13 Tyre inflation rig (4G/1050542). Adjust delivery pressure to 40,
60 and 80 lbf/in² in turn and
repeat sub-item 3.9 to 3.12
inclusive at each pressure.

3.14 Tyre inflation rig (4G/1050542). Ensure delivery pressure is
reading 80 lbf/in².

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

3.16 PEC test adapter gauge. Ensure gauge reading is not in
excess of 10.5 lbf/in².

NOTE: Sub-item 3.17 must be carried out simultaneously with
sub-item 3.18.

3.17 Anti-G valve test button. Release.

3.18 PEC test adapter gauge. Ensure indicating zero.

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

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CHAP 2 AIRFRAME
SP 117A AL 4
SHEET 5 OF 5

SERVICING PROCEDURE
F53

BAC F53 & T55 (SA)
5A3A Section 1
2nd Edition

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4 2 2 5 1

4. COMPLETION

- 4.1 Gauges. Remove.
- 4.2 PEC adapter. Remove.
- 4.3 Air supply trolley. Remove.
- 4.4 Test point (i) Fit blank.
(Access panel 26S (right)). (ii) Wirelock.
- 4.5 Anti-G system. Ensure set to OFF.
- 4.6 Access panels. Refit.

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

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