CHAP 2 AIRFRAME SP 123 AL 4 SHEET 1 OF 5	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition

Cabin - AI23S Bullet Exhaust Joint Functional Check	AFSC 42251	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		

ASSOCIATED PROCEDURES

SPECIAL TOOLS AND EQUIPMENT

Inflation pump (4G/3743).
Adapter (26DK/95228).
Gauge 0-15lbs - quantity 2 (4G/5809).
Pressurization rig (4F/1714).
Adapter (26DK/95401).
Sleeve AGS2111/B (28F/5722).
Coupling AGS1140/B (28F/9439950).
Blank adapter (26DK/95840).
Adapter (4F/1042289).
Adapter (4F/2459).

42251

1. PREPARATION

1.1	Emergency ram air valve.	Ensure closed.
1.2	Demist control lever.	Ensure set to OFF.
1.3	Canopy seal testpoint (left side - T55; left side bulkhead - F53).	Fit adapter (26DK/95228) and gauge (4G/5809).
1.4	Canopy seal guard.	Remove.
1.5	Canopy jack safety strut.	Remove.
1.6	Forward equipment hatch.	Open.
1.7	AI23S radar bullet.	Ensure fitted.
1.8	Cabin/bullet exhaust nut (Nose under - carriage bay).	(i) Remove. (ii) Fit blank (ST11/18250).
1.9	External d.c. power supply.	(i) Connect. (ii) Set to ON.
1.10	Static bleed (Forward equipment compartment) (Frame 4A(T55); Frame 5 (F53)).	Blank, using sleeve (AGS2111/B) and cone plug (AGS1140/B).

Continued Overleaf

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

42251

1.	PREPARATION (contd)	
1.11	Cockpit pressure test connexion (Forward equipment compartment Frame 4A (T55); Frame 5 (F53)).	(i) Remove blank. (ii) Fit 0-15lbf/in2 gauge (4G/5809) and adapter (4F/2459 and 26DK/95401) ensuring tube is as short as possible.
1.12	Ground test connexion (Access panel 26P(left) (F53));(Access panel 20P (left) (T55)).	Connect pressurization rig (4F/1714 and adapter (4F/1042289).
1.13	Canopy seal inflation connexion (Access panel 25P(left) (T55); Access panel 21P(left) (F53)).	(i) Connect inflation pump (4G/3743). (ii) Pressurize system to approx 1001bf/in2. (Indicated on gauge near to inflation point).
1.14	Canopy.	(i) Close, using aircraft hand pump. (ii) Lock, using external handle.
1.15	Canopy indicator lamp.	Ensure extinguished.
1.16	Canopy seal reducing valve.	Ensure operating correctly by checking that gauge (4G/5809) indicates between 7.75 and 9.5 lbf/in2.
2.	TESTING	
2.1	Pressurization rig (4F/1714).	Set relief valve to 51bf/in2.
2.2	Cockpit.	Pressurize at rate not exceeding 21bf/in2 per min, using pressurization rig (4F/1714).
2.3	Combined exhaust valve (Forward equipment bay).	Check that safety valves relieve when pressure is between 4.4 and 4.5 lbf/in2 as indicated on test gauge on Frame 5 (F53) and Frame 4A(T55).
2.4	Pressurization rig.	Stop.

Continued

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

42251

2. TESTING (contd)

2.5	Cockpit.	Check and record time taken for pressure to drop from 4 to 2 lbf/in2.

NOTE:- In sub-item 2.5 the time should not be less than 40 sec. following a major servicing or refurbishing on which a new canopy seal was fitted. For in service aircraft between majors or refurbishing a time of not less than 30 sec. is acceptable.

2.6	Static bleed (Forward equipment compartment).	Remove blank.
2.7	Pressurization rig.	Ensure relief valve set to 5lbf/in2.
2.8	Cockpit.	Pressurize at rate not exceeding 2lbf/in2 per minute, using pressurization rig.
2.9	Pressurization rig.	Stop.
2.10	Cockpit.	Check and record time taken for pressure to drop from 4 to 2 lbf/in2.
2.11	Comparatorgraph (See Fig.1).	(i) Transfer reading obtained at sub-item 2.5 to Y axis. (ii) Extend horizontally to curve of graph. (ii) Note point of intersection relative to X axis. (iv) Reading obtained at sub-item 2.10 is to be more than that obtained at sub-item 2.11 (iii) above.

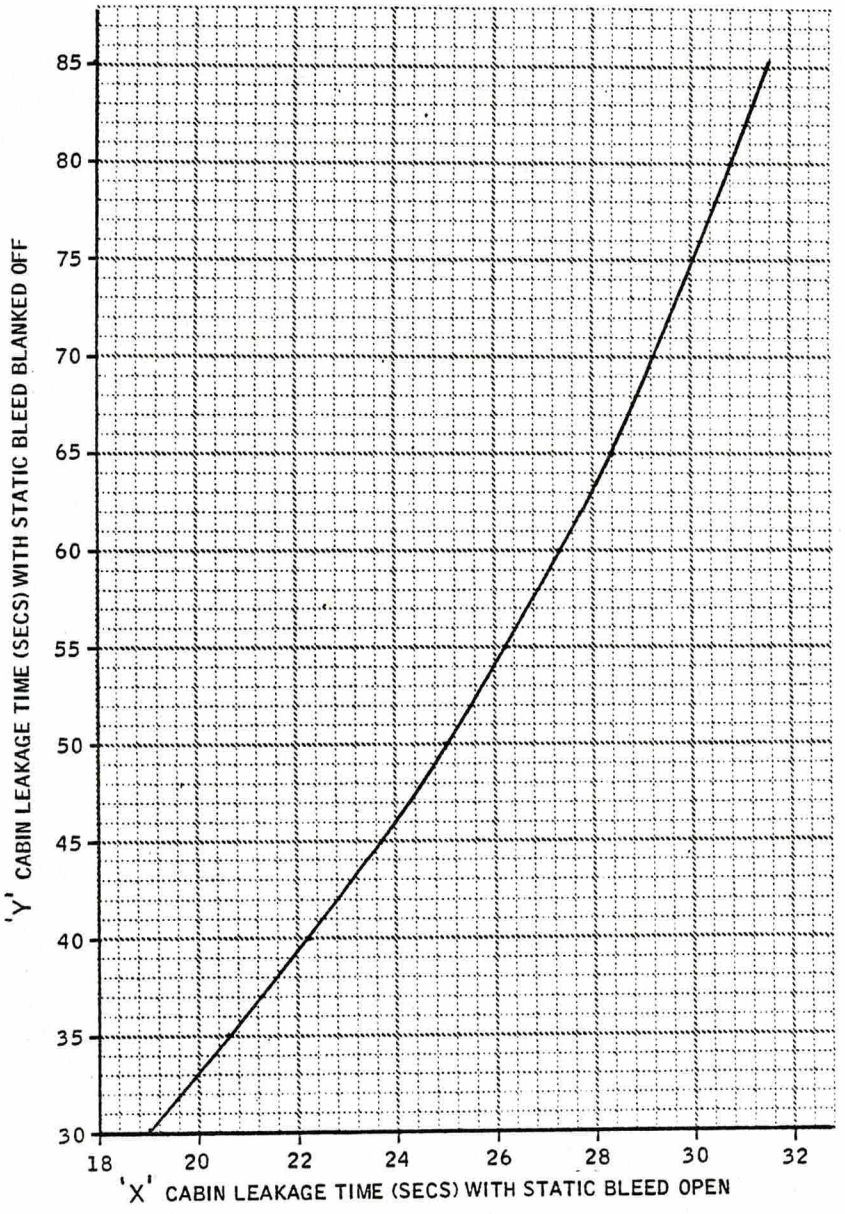
NOTE: If reading obtained at sub-item 2.10 is less than that obtained at sub-item 2.11 (iii) the cabin AI23S cabin/bullet exhaust joint is to be treated as suspect and investigated.

3. COMPLETION

3.1	Pressurization rig and adapter (4F/1042289).	(i) Disconnect. (ii) Fit blank and wirelock.

Continued Overleaf

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



CABIN LEAKING

FIGURE 1

Continued

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

42251

3. COMPLETION (contd)

3.2	Cabin/bullet exhaust (Nose undercarriage bay).	(i) Remove blank (ST11/18250) (ii) Fit nut hand tight. (iii) Wirelock.
3.3	Cockpit pressure test connexion (Frame 4A(T55); Frame 5 (F53)).	(i) Remove gauge and adapter. (ii) Fit blank and wirelock.
3.4	Canopy seal inflation connexion.	(i) Remove inflation pump. (ii) Fit schrader cap.
3.5	Cockpit.	(i) Ensure pressure is zero. (ii) Open canopy.
3.6	Canopy seal test point.	(i) Remove gauge and adapter. (ii) Fit blank and wirelock.
3.7	External d.c. power supply.	(i) Set to OFF. (ii) Disconnect.
3.8	Access panels.	Refit.

NOTE:- All wirelocking to be of 22 S.W.G. stainless steel wire unless otherwise stated.