

CHAP 1 AIRFRAME SP 52 AL 6 SHEET 1 OF 7	SERVICING PROCEDURE T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition	
Brake Cable - Replacement		AFSC 43151 43171 42252 42251 32251 43250 32271	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.			
SPECIAL TOOLS AND EQUIPMENT			ASSOCIATED PROCEDURES
Canopy seal guard - left (26DK/95252). Canopy seal guard - right (26DK/95253). <u>4 2 2 5 2 / 4 3 1 5 1</u>			SP5B (AF) 6B (AF) 105 (AF) 116B (AF) 1B (W) 2B (W) 101B (RAD) 120 (P)
1. PREPARATION			
1.1 Canopy. Remove (SP 5B (AF)).			
1.2 Canopy seal guards (26DK/95252 (left) and 26DK/95253 (right)). Fit.			
<u>4 2 2 5 2</u>			
2. PREPARATION			
2.1 Ejection seats. Remove (SP 1B (W)).			
<u>4 3 1 5 1</u>			
3. PREPARATION			
3.1 Air intake panel (Right side under cockpit floor) Ref.No.26DK/22335. Remove.			
<u>3 2 2 5 1</u>			
4. PREPARATION			
4.1 External computer. (Cockpit). Remove.			
<u>4 3 1 5 1</u>			
5. REMOVAL			
5.1 Pulley arm assembly. (See Fig.1, Detail C).			(i) Slacken adjuster. (ii) Remove split pin, washer and slotted nut from pivot arm attachment. (iii) Remove bolt, washer and stiffnut from pulley arm adjuster.
			Continued Overleaf
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5. REMOVAL (Contd)		
5.1 Pulley arm assembly (Contd).	(iv)	Detach pulley arm complete with pulleys and rear cable.
5.2 Brake cable (At control valve).	(i)	Remove wirelocking from retaining pin.
	(ii)	Withdraw retaining pin and remove bush.
	(iii)	Withdraw brake cable nipple from control valve.
5.3 Pulley arm assembly. (See Fig.1, Detail C).	(i)	Disconnect pulleys at attachment.
	(ii)	Withdraw cable through pulley arm assy.
	(iii)	Retain pulley arm assy.
5.4 Brake cable.		Attach sufficient length of strong cord to nipple end of cable.
5.5 Cockpit floor.		Remove panels 22, 52, 65, 41, 42, 78, 64 for access to brake cable.
5.6 Control column gaiter.	(i)	Remove jubilee clip.
	(ii)	Remove 2BA hexacon headed bolts (quantity 6).
	(iii)	Unzip gaiter.
5.7 Control column brake cable connexion. (See Fig.1)..	(i)	Disconnect at fork-end.
	(ii)	Retain shear pin and washer.
5.8 Brake cable adjuster (Control column) (See Fig.1).	(i)	Unscrew locknut.
	(ii)	Unscrew adjuster from control column lug.
5.9 Brake cable.		Attach sufficient length of strong cord to brake cable fork-end.
5.10 Junction box (Between FR 14 and 15), (See Fig.1, Detail A).	(i)	Remove four stiffnuts and lift junction box from supporting structure.
	(ii)	Remove four locknuts to disassemble junction box.
	(iii)	Retain all parts.
	(iv)	Slide cable nipples out of cable block.
		Continued Overleaf
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5. REMOVAL (Cont'd)

5.11 Pressure seal assembly. (FR 16) (See Fig.1, Detail D).

(i) Remove the cheesehead screws with associated spring washers.

(ii) Separate the contact surfaces

5.12 Brake cable (From control column).

(i) Disconnect P clips between FR 11 and 14 (See Fig.1).

(ii) Remove from brake cable and retain.

(iii) Pull through FR 11 to junction box ensuring cord is attached.

5.13 Brake cable (From pulley arm assy), (Air intake access panel).

(i) Pull cable through from cockpit bulkhead seal assembly (FR 16).

(ii) Ensure cord is attached.

5.14 Pressure seal orifice. Clean and degrease area.

6. FITTING

NOTE 1: Extreme care must be exercised during cable installation to ensure against inner cable becoming kinked.

NOTE 2: When reassembling the shrouded pulleys AS1151 ensure the shroud cover (AS113) slotted cable ports which are variably pitched are correctly related to the entry and exit angles of the cable (See Figure 2). The pulley mounting bolt must not allow movement of the shroud. Non-compliance with the above will cause; cable fouls on the shroud, broken wires and subsequent failure.

6.1 Brake cable (Cockpit) (See Fig.1).

(i) Feed cable back through FR 14 to 11.

(ii) Screw adjuster at control column fully in.

(iii) Attach cable nipple to junction box cable block (See Fig.1, Detail A).

(iv) Detach cord.

6.2 Brake cable (From junction box to control valve).

(i) Attach cable nipple to junction box cable block. (See Fig.1, Detail A).

(ii) Feed cable through bulkhead to FR 17.

(iii) Detach cord.

Continued

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6. FITTING (Cont'd)

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|--|--|--|
| 6.3 | Pressure seal assembly,
(See Fig.1, Detail A). | (i) Coat mating surfaces with sealing compound (PR1221BT).
(ii) Fit new double spring washers to cheesehead screws.
(iii) Reassemble the pressure seals to the cockpit bulkhead. |
| 6.4 | Junction box. | (i) Fit the two halves together.
(ii) Fit four locknuts to screws.
(iii) Ensure free movement of cable block in junction box.
(iv) Fit the supporting structure with washers and stiffnuts. |
| 6.5 | Pulley arm assembly
(See Fig.1, Detail C). | (i) Feed cable through pulley arm assy tube.
(ii) Reconnect pulleys at attachments.
(iii) Fit pulley arm assy to pivot arm attachment.
(iv) Fit washer, slotted nut and new split pin.
(v) Fit bolt washer and stiffnut to pulley arm adjuster, and tighten. |
| 6.6 | Brake cable (At control valve). | (i) Fit nipple to control valve.
(ii) Fit retaining bush.
(iii) Fit retaining pin and wire-lock. |
| 6.7 | Brake cable (FR 11 to 14). | (i) Attach P clips to brake cable.
(ii) Attach brake cable to attachments. |
| NOTE: During Sub-item 6.8 cable passes through pocket in gaiter. | | |
| 6.8 | Brake cable (At control column). | (i) Connect fork-end.
(ii) Fit washer and new split pin. |
| 6.9 | Brake cable adjuster
(Control column)
(See Fig.1, Detail B). | (i) Adjust to remove slack in cable.
(ii) Tighten adjuster locknut.
(iii) Check cables for full and unrestricted movement. |

Continued Overleaf

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7. TESTING

NOTE 1: In sub-item 7.1 ensure that the brake cable cannot be pulled through retaining clips past the sleeve at any point. If the cable is being pulled through the retaining clips past the sleeve the cable must be removed and additional sleeving fitted.

NOTE 2: Sub-item 7.1 is to be carried out in conjunction with sub-items 8.1 (ii) and 9.3 (iii).

7.1 Wheel brakes. Test (SP 105 (AF)).

43171 (INSPECTOR)

8. INSPECTION STAGE

8.1 Inspect installation. Independent check of:
 (i) Assembly and locking.
 (ii) Function.

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9. COMPLETION

9.1 Cockpit. Ensure no loose articles.

9.2 Cockpit floor. Refit panels 22, 52, 65, 41, 42, 78 64.

9.3 Control column gaiter.
 (i) Refit 2BA hexagon headed bolts (quantity 6).
 (ii) Zip up gaiter and fit jubilee clip.
 (iii) Ensure slack in gaiter to allow for full control column movement.

10. COMPLETION

10.1 Air intake access panel. Refit.
 (Right side beneath cockpit floor).

32251/32271

11. COMPLETION

11.1 External computer (Cockpit).
 (i) Refit.
 (ii) Test (SP 101B (RAD)).

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12. COMPLETION

12.1 Ejection seats. Refit (SP 2B (W)).

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13. COMPLETION

13.1 Canopy. Refit (SP 6B (AF)).

13.2 Canopy seal guards. Remove.

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14. COMPLETION

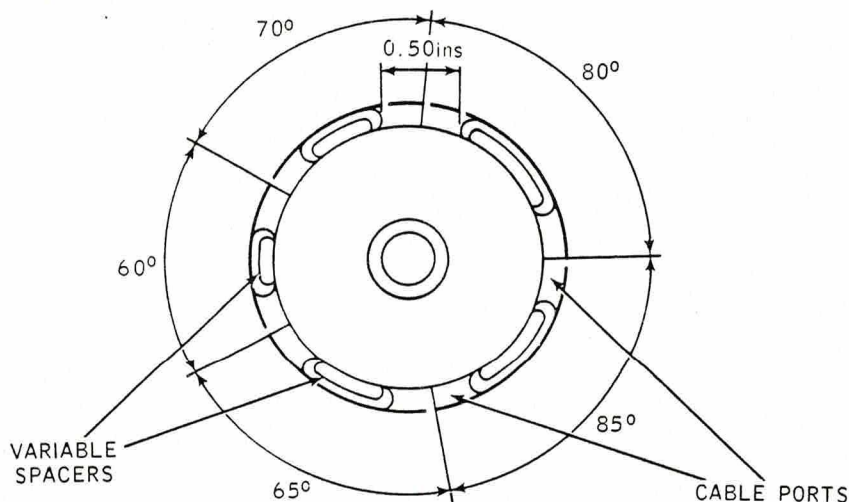
14.1 Cabin pressurization. Test (SP 116B (AF)).

43151/43250

15. COMPLETION

15.1 Loose article check. Carry out (SP 120 (P)).

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



SHROUD COVER, AS113
(Part of pulley AS1151)
FIGURE 2

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