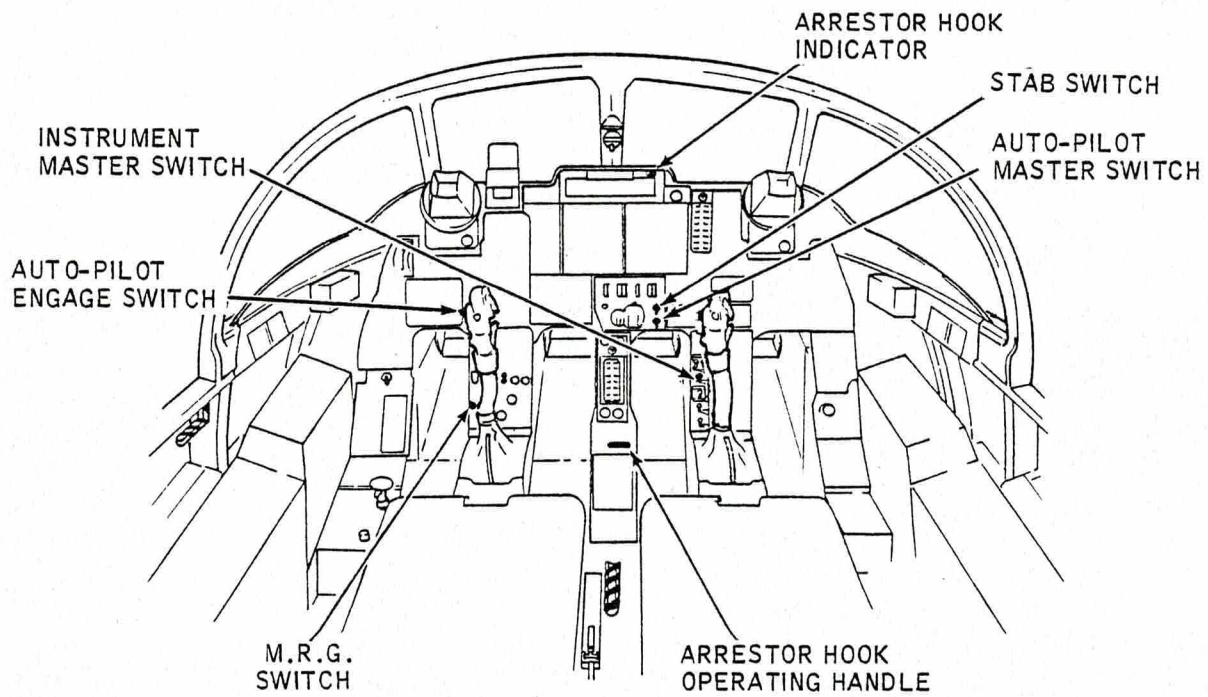
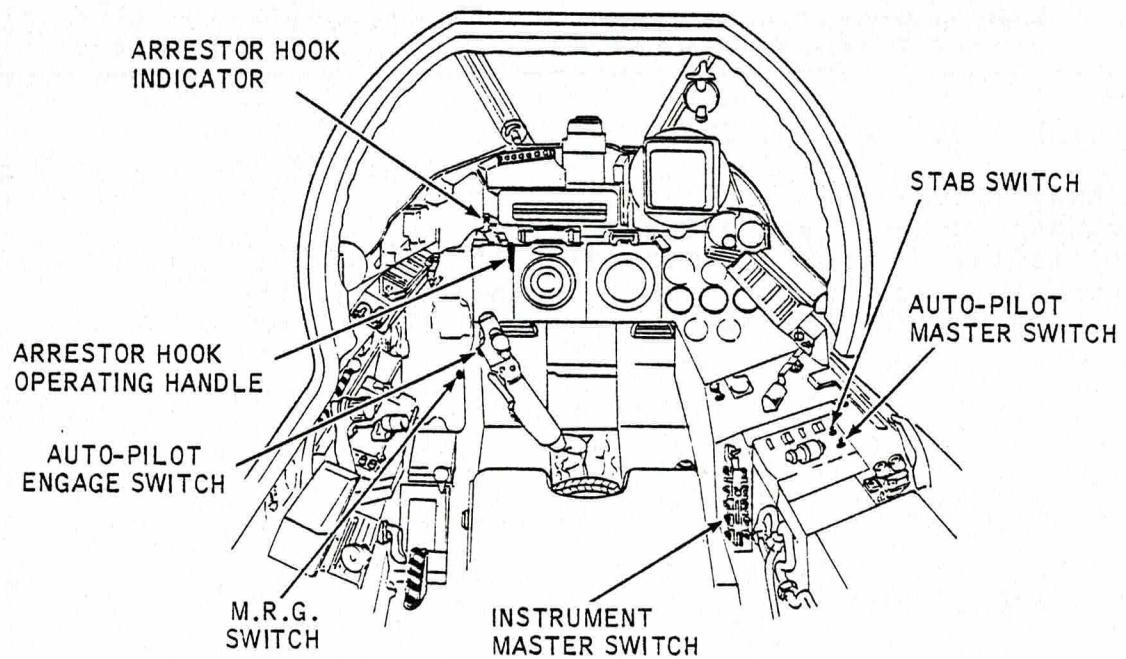


CHAP 1 AIRFRAME SP 37 AL 5 SHEET 1 OF 9	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Tailplane Trim Actuator - Removal and Fitting		AFSC 43151 42152
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		TIME EST 43171 42172 32550 43250
SPECIAL TOOLS AND EQUIPMENT		
Walkway (26DK/95055) Incidence gauge (26DK/95864). Tyre inflation rig (4G/1050542). Auto-stabilizer neutral setting pin (CH/455/148). Locating pin (26DK/95127).		ASSOCIATED PROCEDURES SP5 (P) 6 (P) 7 (P) 8 (P) 114 (AF) 510 (INS) 42 (AF) 52 (AF) 603 (AF) 43 (AF) 58 (AF)
<u>43250</u>		
1. PREPARATION		
1.1 No.1 intermediate and reheat jet pipes.	Remove (SP 5(P) and SP 7(P)).	
<u>42152 / 43151</u>		
2. PREPARATION		
2.1 Centre ventral tank.	Remove (SP 42(AF) or (SP 54(AF)).	
2.2 Walkway (26DK/95055).	Fit.	
2.3 Heat shield.	Remove.	
2.4 Access panel 38P (left).	Remove.	
2.5 Arrestor hook bolster.	Remove.	
2.6 Drain channels.	Remove.	
2.7 Panel 93.	Remove.	
2.8 Ground air charging release connexion (Access panel 63P(left)).	Remove blank.	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Continued Overleaf</div>		

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



INSTRUMENT AND AUTO-PILOT SWITCHES

FIGURE 1

Continued

CHAP 1 AIRFRAME SP 37 A L 5 SHEET 3 OF 9	SERVICING PROCEDURE F53 T55	B A C F 53 & T 55 (SA) 5A3A Section 1 2nd Edition
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Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

42152 / 43151

2. PREPARATION

2.9 Service system hydraulic pressure. Release pressure by operating brake lever.

2.10 Hydraulic test trolleys. (i) Prime.
(ii) Bleed.

2.11 No.1 Services ground test connexions (Access panel 45P (left)). Connect hydraulic test trolley.

2.12 No.1 Controls ground test connexions (Access panel 45P (left)). Connect hydraulic test trolley.

2.13 Hydraulic reservoirs (Services and No.1 controls system). Replenish (SP 603(AF)).

2.14 Tyre inflation rig (4G/1050542). (i) Connect to ground air charging/release connexion (Access panel 63P (left)).
(ii) Set to deliver a pressure of between 16 and 18 lbf/in².

2.15 External d.c. power supply. (i) Connect.
(ii) Switch to ON.

2.16 External a.c. power supply. (i) Connect.
(ii) Switch to ON.

2.17 MRG switch. Set to OFF (See Fig.1).

2.18 Stab switch (On controller). Set to OFF (See Fig.1).

2.19 Autopilot engage switch (On control column). Set to OFF (See Fig.1).

2.20 Instrument master switch. Set to ON (See Fig.1).

Continued Overleaf

CHAP 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 37 AL 5	F53 T55	5A3A Section 1
SHEET 4 OF 9		2nd Edition

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

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2. PREPARATION (contd)

2.21 Autopilot master switch (On controller). Set to ON (See Fig.1).

2.22 Tailplane auto-stabilizer actuator. (i) Set to neutral using aircraft hand pump.
(ii) Check neutral using setting pin (CHA/455/148).

2.23 Tailplane auto-stabilizer actuator. Remove setting pin.

2.24 Tailplane incidence gauge (26DK/95864). Fit.

3.25 Main and nose undercarriage. Ensure ground locks fitted.

2.26 Pitot/static test set. Connect.

2.27 Services system. Pressurize to 3000 lbf/in².

2.28 Pitot/static system. Pressurize to equivalent of 250Kt.

2.29 No.1 controls system. Pressurize to 3000 lbf/in².

2.30 Feel selector. Set to IN.

2.31 Tailplane trim. Trim to neutral (On incidence gauge).

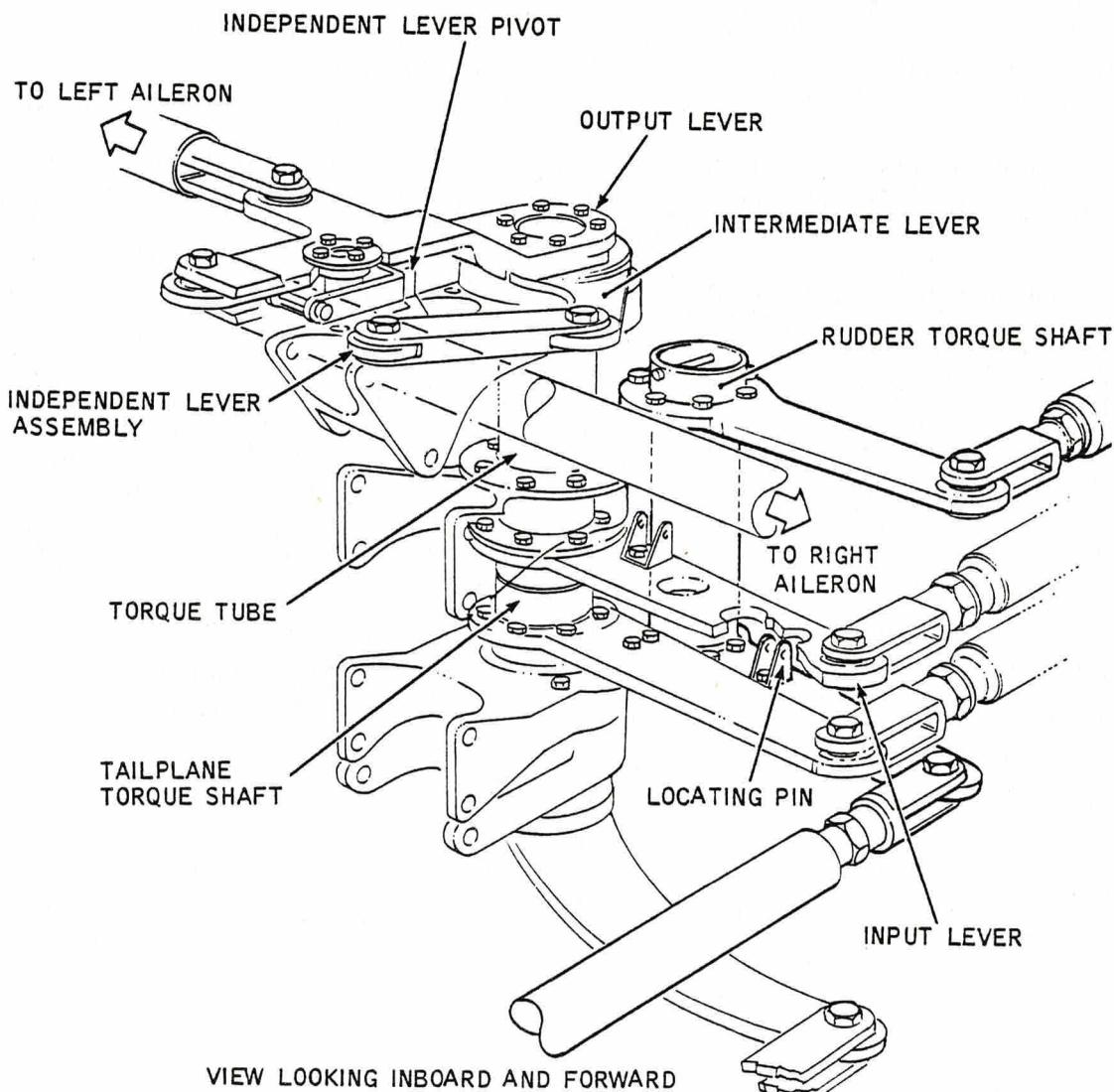
2.32 Tailplane control system vertical torque shaft (Access panel 26S (right) (F53) (Access panel 20S (right) (T55)). Fit locating pin (26DK/95127), (See Fig.2).

2.33 Tailplane. Ensure neutral.

2.34 Tailplane control system vertical torque shaft. Remove locating pin.

Continued

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



NON-LINEAR GEARING MECHANISM

FIGURE 2

Continued Overleaf

CHAP 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 37 AL 8	F53	T55
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Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

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2. PREPARATION (contd)

2.35 Pitot/static system. Release pressure and remove test set.

2.36 Autopilot master switch (On controller). Set to OFF.

2.37 Instrument master switch. Set to OFF.

2.38 External d.c. power supply. Set to OFF.

2.39 External a.c. power supply. Set to OFF.

2.40 Services and No.1 controls hydraulic test trolleys. Stop.

2.41 Rear services system accumulator. Exhaust pressure by selecting feed in and out.

2.42 No.1 controls system. Exhaust pressure by operating tailplane control.

2.43 Tyre inflation rig (4G/1050542). (i) Remove. (ii) Ensure all air is released and fit and tighten blank.

32550/42350

3. REMOVAL

3.1 Trim actuator electrical connexions. Disconnect.

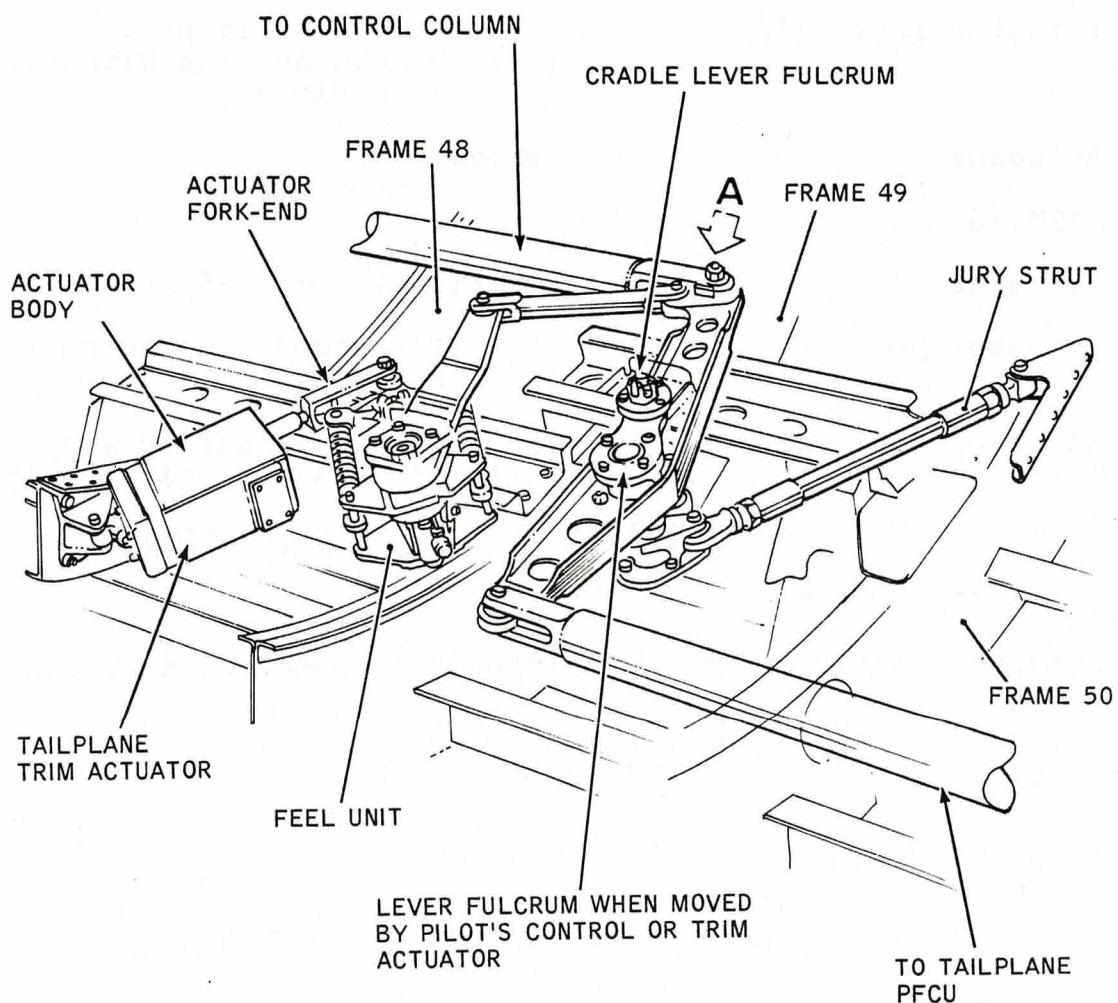
42152/43151

4. REMOVAL

4.1 Actuator body (Access panel 38P (left)). (i) Remove split pin. (ii) Remove collar and shear pin (See Fig.3).

Continued

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



TRIM ACTUATOR AND FEEL UNIT INSTALLATION

FIGURE 3

Continued Overleaf

CHAP	1	AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP	37	AL 9	F53	T55
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4. REMOVAL

4.2 Actuator fork end. (i) Remove split pin.
(ii) Remove nut and withdraw bolt (See Fig.3).

4.3 Actuator Remove.

5. FITTING

5.1 Actuator. Position in aircraft.

5.2 Actuator body. (i) Fit shear pin and collar.
(ii) Split pin.

5.3 Actuator fork end. (i) Ensure in safety and fit bolt.
(ii) Tighten nut and split pin.

42172 / 43171 (INSPECTOR)

6. INSPECTION STAGE

6.1 Actuator installation Inspect on completion of item 5.

32551 / 42350

7. FITTING

7.1 Trim actuator electrical connexions. Connect.

32570 / 42370 (INSPECTORS)

8. INSPECTION STAGE

8.1 Trim actuator electrical connexions. Inspect.

42152 / 43151

9. TESTING

9.1 Trim range. Test (SP 114 (AF)).

32550

10. TESTING

10.1 Trim range. Test (SP 510 (INS)).

Continued

CHAP 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 37 AL 9	F53 T55	5A3A Section 1
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Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

4 2 1 7 2 / 4 3 1 7 1 (INSPECTORS)

11. INSPECTION STAGE

11.1 Installation.

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

4 3 1 5 1

12. GENERAL

12.1 Access panel 38P (left). Fit.

12.2 Heat shield. Fit.

12.3 Walkway. Remove.

12.4 Centre ventral tank. Fit (SP 43 (AF) or 58 (AF)).

4 3 2 5 0

13. GENERAL

13.1 No.1 intermediate and reheat jet pipe. Fit (SP 6 (P) and SP 8 (P)).

4 3 1 5 1

14. COMPLETION

14.1 Panel 93. Refit.

14.2 Arrestor hook bolster. Refit.

14.3 Drain channels. Refit.

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