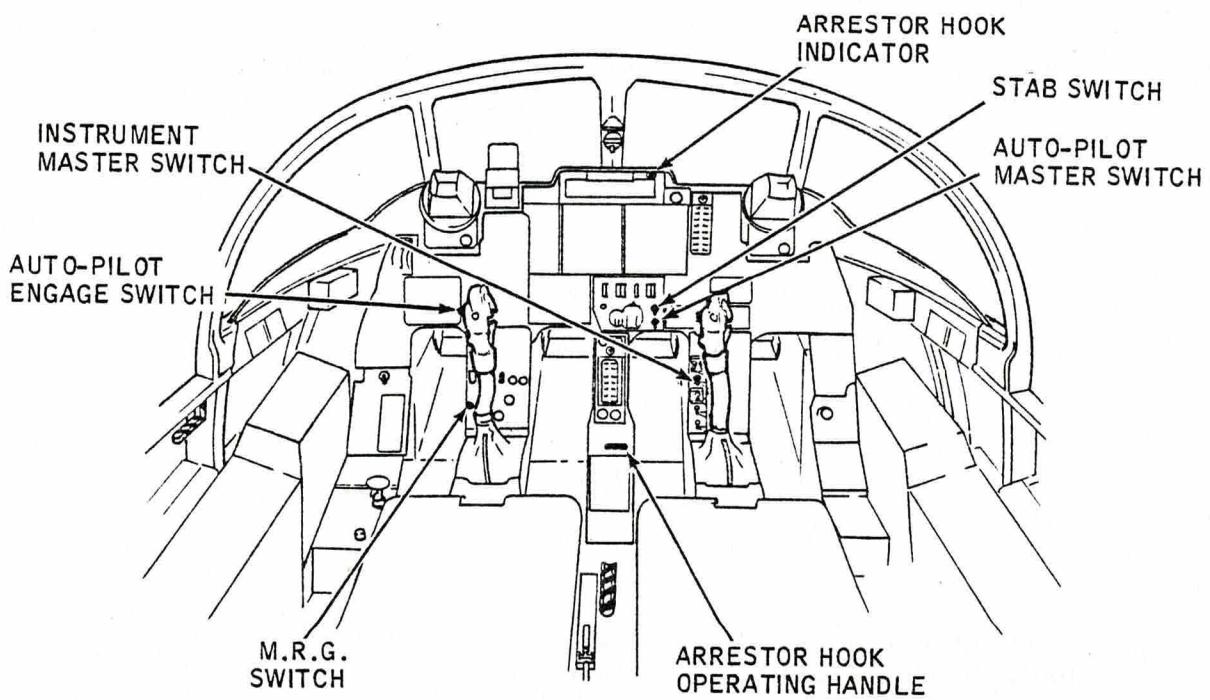
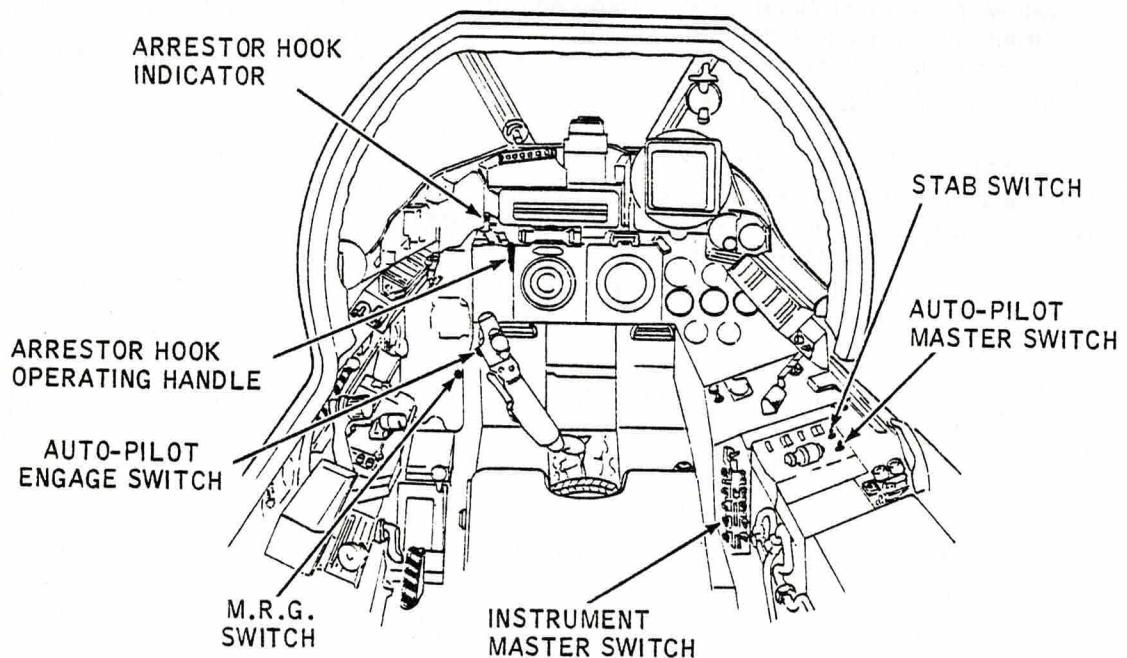


CHAP 1 AIRFRAME SP. 26 AL 4 SHEET 1 OF 8	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Rudder Auto-stabilizer Actuator - Removal	AFSC 42152 43151 43250	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT		ASSOCIATED PROCEDURES
Travel gauge (26DK/95286). Auto-stabilizer neutral setting pin (26DK/95134). Locally manufactured trammels (26DK/NIV). Locating pin (26DK/95127). Tyre inflation rig (4G/105042).		SP 9 (P) 603 (AF)
NOTE: Where reference is made to rudder neutral position, ascertain from Airframe Log Card any deviation from the standard detailed.		
<u>43250</u>		
1. PREPARATION		
1.1 No.2 Reheat jet pipe. Remove (SP 9 (P)).		
<u>43151</u>		
2. PREPARATION		
2.1 Aircraft. (i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at Frame 59. (iii) Trestle at Frame 44.		
NOTE: Sub-Item 2.1 (iii) is applicable only if both engine hatches are removed.		
<u>42152 / 43151</u>		
3. PREPARATION		
3.1 Ground air charging/ Remove blank. release connexion (Access panel 63P (left)).		
3.2 Services system hydraulic pressure. Release pressure by operating brake lever.		
3.3 Hydraulic test trolleys. (i) Prime. (ii) Bleed.		
		Continued Overleaf

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



MK.55

INSTRUMENT AND AUTO-PILOT SWITCHES
FIGURE 1

Continued

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

42152 / 43151

3. PREPARATION (Contd)

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

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

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

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

3.8 Access panel 84S (right). Remove.

3.9 Heat shield (between Frames 56 and 57 (right)). Remove.

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

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

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

3.13 STAB switch (On controller). Set to OFF (See Fig.1).

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

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

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

3.17 Rudder auto-stabilizer actuator. (i) Set to neutral using aircraft hand pump. (ii) Check neutral using setting pin (26DK/95134).

3.18 Rudder auto-stabilizer actuator. Remove setting pin.

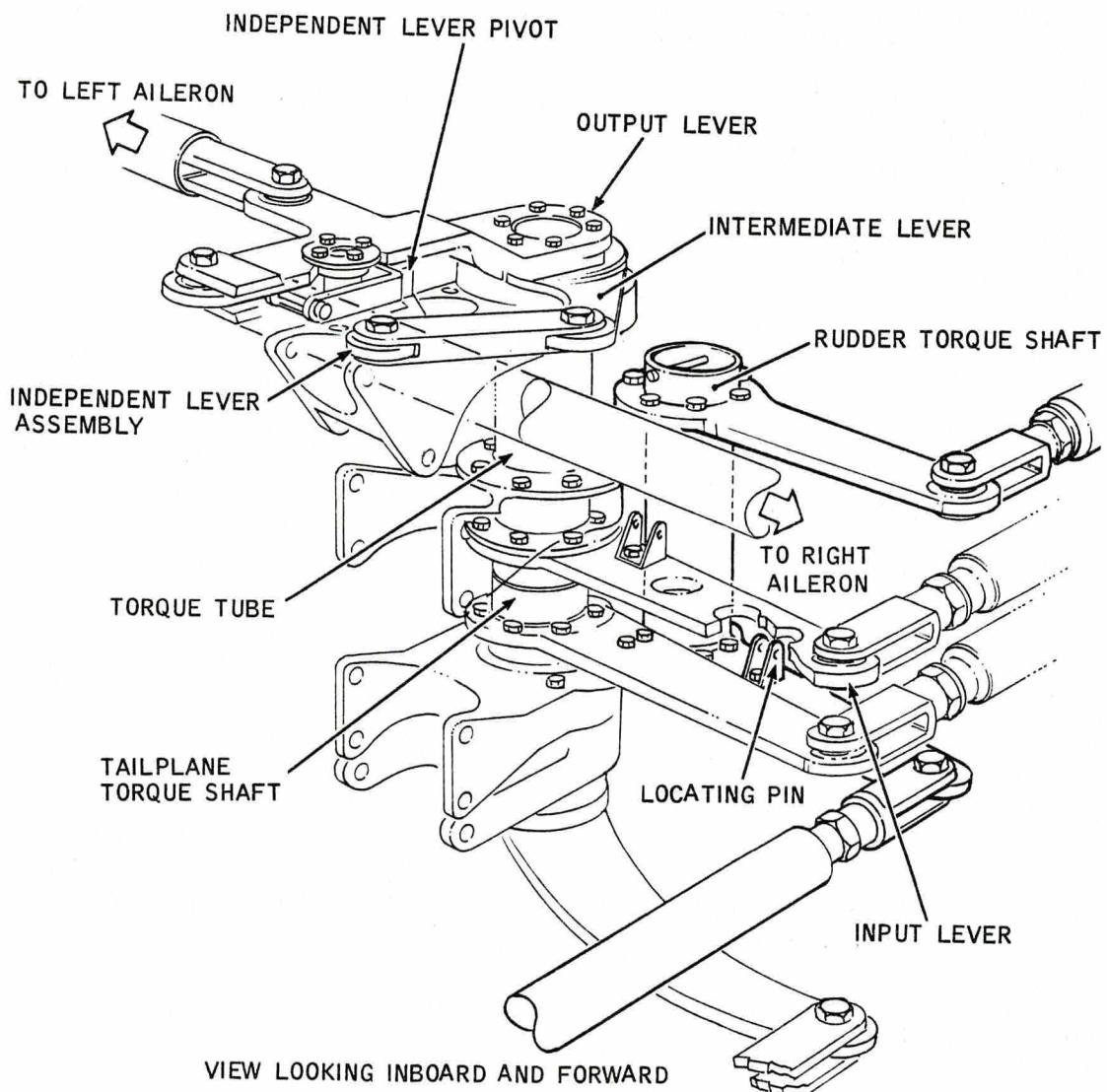
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CHAP. 1 AIRFRAME
S.P. 26 A.L. 4
SHEET 4 OF 8

SERVICING PROCEDURE
F53 T55

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

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



NON-LINEAR GEARING MECHANISM
FIGURE 2

Continued

CHAP . 1 AIRFRAME SP 26 AL 4 SHEET 5 OF 8	SERVICING PROCEDURE F53 T55	B A C F 53 & T 55 (SA) 5A3A Section 1 2nd Edition
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
<u>42152 / 43151</u>		
3. PREPARATION (contd)		
3.19 Rudder travel gauge.	Fit (26DK/95286).	
3.20 Main undercarriage.	Ensure ground locks fitted.	
3.21 Nose undercarriage.	Remove ground lock.	
3.22 Pitot/Static test set.	Connect.	
3.23 Pitot/Static system.	Pressurize to equivalent of 165 Kt.	
3.24 Undercarriage lever.	Select to UP.	
3.25 Nose undercarriage.	Raise, using test trolley hand pump, until indicator lamp is out.	
3.26 Services system.	Pressurize to 3000 lbf/in ² .	
3.27 Pitot/Static system.	Pressurize to equivalent of 650 Kt.	
3.28 No.1 Controls system.	Pressurize to 3000 lbf/in ² .	
3.29 Feel selector.	Ensure set to IN.	
3.30 Rudder trim.	Trim to neutral ensuring indication on gauge is correct.	
3.31 Rudder control system vertical torque shaft (Access panel 26S (right) (F53)), (Access panel 20S (right) (T55)).	Fit locating pin (26DK/95127).	
3.32 Rudder.	Ensure neutral.	
3.33 Rudder control system vertical torque shaft.	Remove locating pin.	
3.34 Pitot/Static system.	Release pressure and remove test set.	
3.35 Undercarriage lever.	Select to DOWN.	
3.36 Nose undercarriage.	Fit ground lock.	
Continued Overleaf		
SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS		

CHAP • 1 AIRFRAME
SP 26 AL 4
SHEET 6 OF 8

SERVICING PROCEDURE

F53

T55

BAC F53 & T55 (SA)

5A3A Section 1
2nd Edition

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

42152 / 43151

3. PREPARATION (contd)

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

3.38 Instrument master switch. Set to OFF.

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

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

3.41 Services and No.1 controls hydraulic test trolleys. STOP.

3.42 Rear services system accumulator. Exhaust pressure by selecting feel in and out.

3.43 No.1 Controls system. Exhaust pressure by operating tailplane control.

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

4. REMOVAL

4.1 Auto-stabilizer actuator pig-tail cable (At in-line connector). Disconnect.

4.2 Hydraulic pressure connexion. (i) Disconnect.
(ii) Fit blanks (See Fig.3).

4.3 Hydraulic return connexion. (i) Disconnect.
(ii) Fit blanks (See Fig.3).

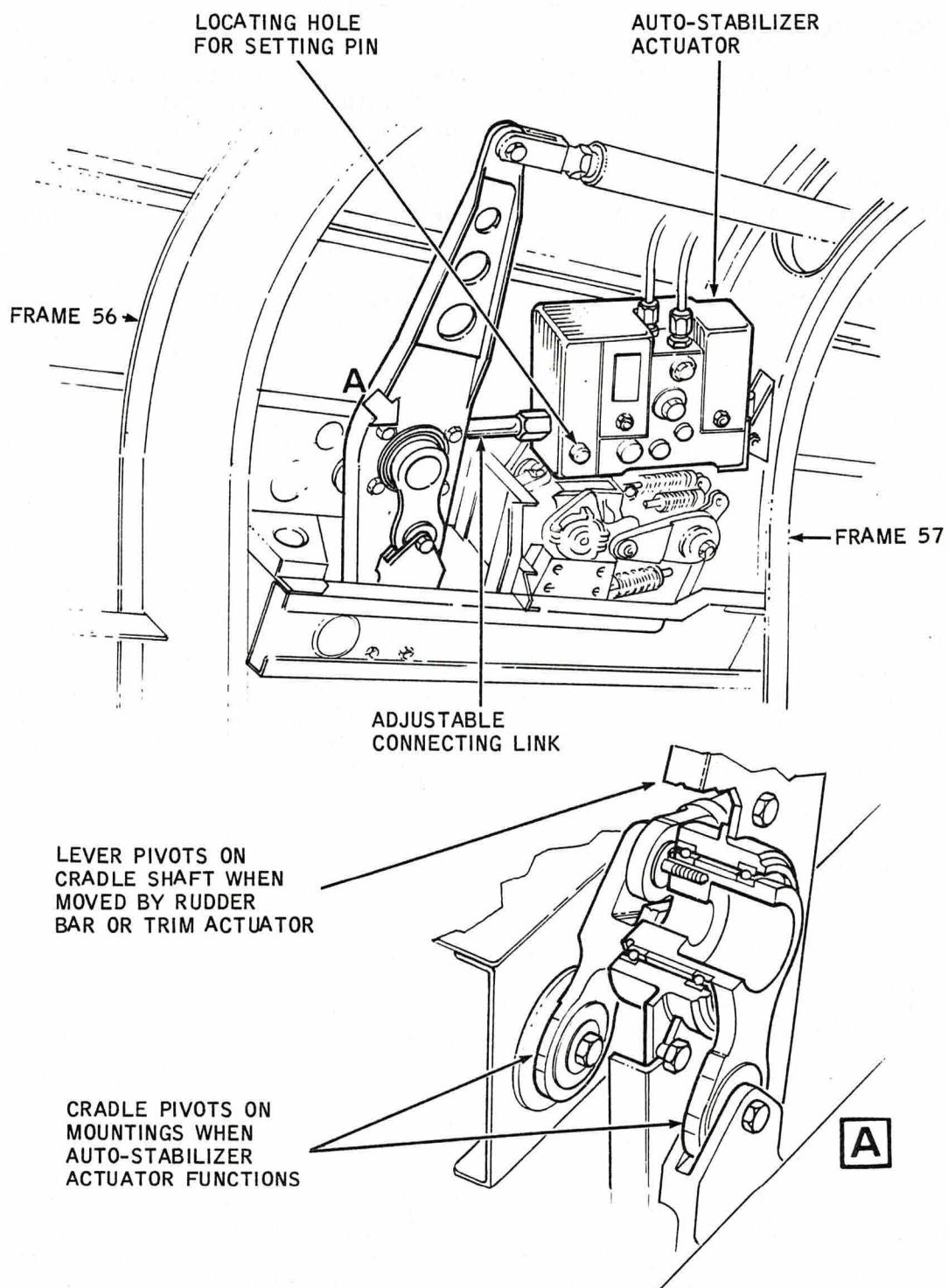
4.4 Adjustable connecting rod to actuator ram (Attached to cradle shaft). (i) Remove locking wire.
(ii) Disconnect.

4.5 Actuator rear attachment shear pin (Frame 57). (i) Remove split pin & collar.
(ii) Disconnect.

4.6 Auto-stabilizer actuator. Remove.

Continued

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



FEEL, TRIM AND AUTO-STABILIZER
ACTUATOR INTERCONNECTION

FIGURE 3

Continued Overleaf

CHAP 1 AIRFRAME SP 26 AL 4 SHEET 8 OF 8	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		

42152 / 43151

5. COMPLETION

5.1 Auto-stabilizer actuator. Record pin centre (From connecting rod end to auto-stabilizer link, using locally manufactured trammels (26DK/NIV).

5.2 Adjustable connecting rod. Remove from actuator complete with lock nut.

5.3 Rear pick-up link. Remove from actuator.



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