

CHAP 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)	
SP 56 AL 4	F53	T55	
SHEET 1 OF 5	5A3A Section 1		2nd Edition
Nose Undercarriage Retraction Jack - Fitting		AFSC	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		42152 43151 42172 43171 46250	
SPECIAL TOOLS AND EQUIPMENT			ASSOCIATED PROCEDURES
Override setting pin (26DK/95499). Tyre inflation rig (4G/105042).			SP106 (AF) 108 (AF) 151 (AF) 402 (AF) 603 (AF)
<u>42152 / 43151</u>			
1. PREPARATION			
1.1 Nose undercarriage retraction jack.	<ul style="list-style-type: none"> (i) Prime and set to extended position. (ii) If a replacement jack is to be fitted, transfer the shuttle valve from unserviceable unit. (iii) Ensure jack trunnions are fitted, EF2-41-13-left EF2-41-14-right and flanges inboard. 		
2. FITTING			
2.1 Nose undercarriage retraction jack.	Position at FR 13.		
2.2 Jack trunnions.	<ul style="list-style-type: none"> (i) Fit bolts (quantity 4). (ii) Fit slotted nuts (quantity 4). (iii) Tighten and split pin. 		
2.3 Jack trunnion grease pipes.	<ul style="list-style-type: none"> (i) Fit new bonded seals. (ii) Connect and tighten. (iii) Wirelock. 		
2.4 Jack up line swivel coupling.	<ul style="list-style-type: none"> (i) Fit new bonded seals. (ii) Connect and torque tighten to values references in SP402 (AF). (iii) Wirelock. 		
2.5 Jack emergency down line swivel coupling.	<ul style="list-style-type: none"> (i) Fit new bonded seals. (ii) Connect to shuttle valve and torque tighten to values referenced in SP 402 (AF). (iii) Wirelock. 		

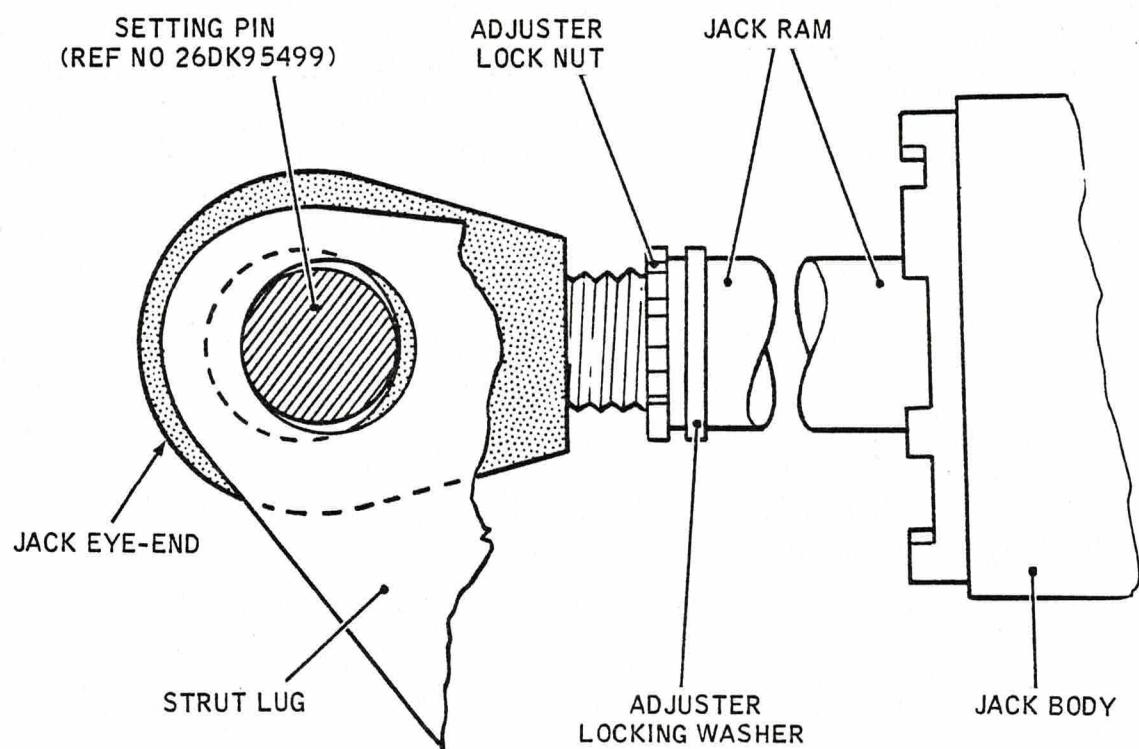
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SERVICING PROCEDURE
F53 T55

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NOSE UNDERCARRIAGE OVERRIDE SETTING
FIGURE 1

Continued

SERVICING PROCEDURE INSPECTION STAGES DO NOT EXCLUDE ADDITIONAL INSPECTION STAGES
INCORPORATED AS NECESSARY IN MAINTENANCE CERTIFICATION DOCUMENTS

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3. GENERAL

3.1 Nose Undercarriage retraction jack override check (0.050 in. See Fig.1). (i) Ensure nose undercarriage strut is fully locked down. (ii) With U/C selected down pressurize hydraulic system to 3000lbf/in² to fully extend the jack. (iii) Slacken adjuster locknut. Adjust eye end until it is aligned with jack ram eye end attachment hole. (iv) Length the jack ram by altering the eye end until, with the locknut tight, the setting pin (26DK/95499) can just be inserted. (v) Remove the setting pin and wirelock the locknut to the adjuster. (vi) Release hydraulic pressure.

NOTE: Minor adjustments can be made by holding the eye end clear of the strut lugs, then with locknut slack and hydraulic pressure released, turning the jack ram using a C spanner.

3.2 Nose undercarriage retraction jack attachment. (i) Retract the jack slightly and connect. (ii) Fit nut, tighten and lock with split pin.

3.3 Nose U/C Jack. Lubricate (Grease XG-287).

3.4 Nose U/C door. Temporarily attach door links.

3.5 Main undercarriage. Ensure ground locks fitted.

3.6 Nose undercarriage. Remove ground lock.

3.7 External d.c. power supply. Switch to ON.

3.8 External a.c. power supply. Switch to ON.

3.9 Pitot static test set. Connect.

3.10 Pitot static system. Pressurize to equivalent of 165 Kt.

3.11 Undercarriage lever. Select to UP.

Continued Overleaf

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3. GENERAL (Contd)

3.12 Nose undercarriage. Raise, using test trolley handpump until indicator lamp is out.

NOTE: During Sub-item 3.12 ensure no signs of fouling during retraction.

3.13 Pitot/Static system. Release pressure and remove test set.

3.14 Undercarriage lever. Select to DOWN.

3.15 Nose undercarriage. Fit ground lock.

3.16 External d.c. power supply. Switch OFF.

3.17 External a.c. power supply. Switch OFF.

3.18 Hydraulic reservoirs (Services and No.1 control system). Replenish (SP 603(AF)).

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

3.20 Main undercarriage system. Bleed (SP 151(AF)).

4. TESTING

4.1 Main undercarriage system. Test (SP 106(AF)), (SP 108(AF)).

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5. INSPECTION STAGE

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

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6. GENERAL

6.1 Nose U/C door. Disconnect attachment links.

Continued

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7. COMPLETION

7.1 Weapons pack.

Refit to relevant SP.

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8. COMPLETION

8.1 Nose U/C door.

- (i) Connect attachment links.
- (ii) Fit collar and lock with split pin.

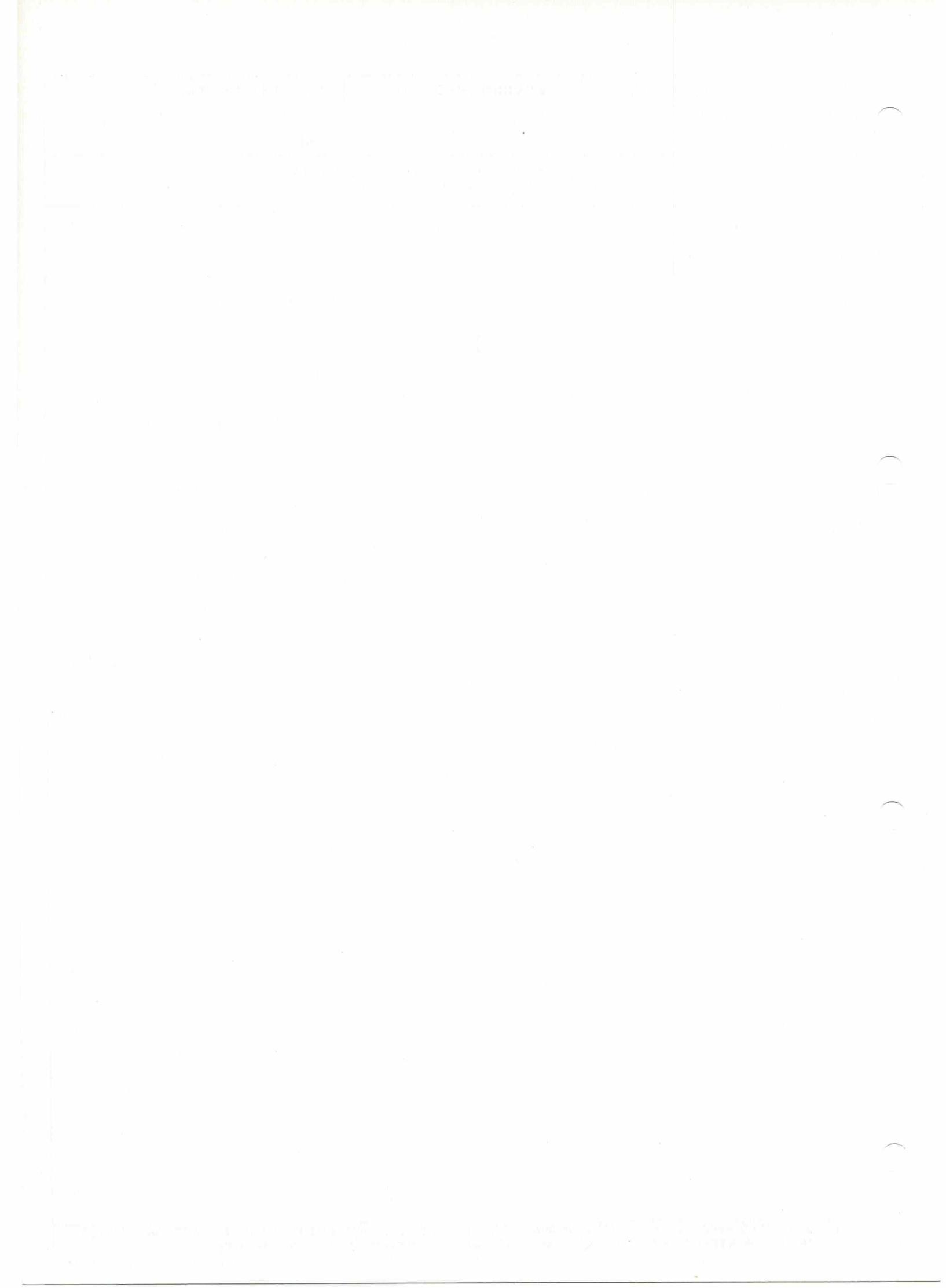
43171/42172

9. INSPECTION STAGE

9.1 Nose U/C door.

Independent check for correct assembly and locking.

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



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