

CHAP 2 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 119 AL 4	F53 T55	5A3A Section 1
SHEET 1 OF 6		2nd Edition
Main Undercarriage Jack - Override Setting	AFSC 43151 43171 42152 42172	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT		ASSOCIATED PROCEDURES
Vernier caliper (1A/9100078).		SP 106 (AF)
Pitot/Static test set (6C/1042139).		603 (AF)
Tyre inflation rig (4G/1050542).		
<u>43151/42152</u>		
1. PREPARATION		
1.1 Aircraft.	(i) Raise until all wheels are clear of the ground. (ii) Trestle at Frame 59.	
1.2 Ground air charging/release connexion (Access panel 63P(Left)).	Remove blank.	
1.3 Services system hydraulic pressure.	Release pressure by operating brake lever.	
1.4 Hydraulic test trolley.	(i) Prime. (ii) Bleed.	
1.5 No.1 Services ground test connexions.	Connect hydraulic test trolley.	
1.6 Hydraulic reservoir.	Replenish (SP 603(AF)).	
1.7 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 and 18 lbf/in2.	
1.8 Slave battery.	Fit.	
1.9 Battery isolating switch.	Set to ON.	
1.10 Pitot/Static test set.	Connect.	
1.11 Undercarriage ground locks.	Remove.	
		Continued Overleaf
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2. TESTING

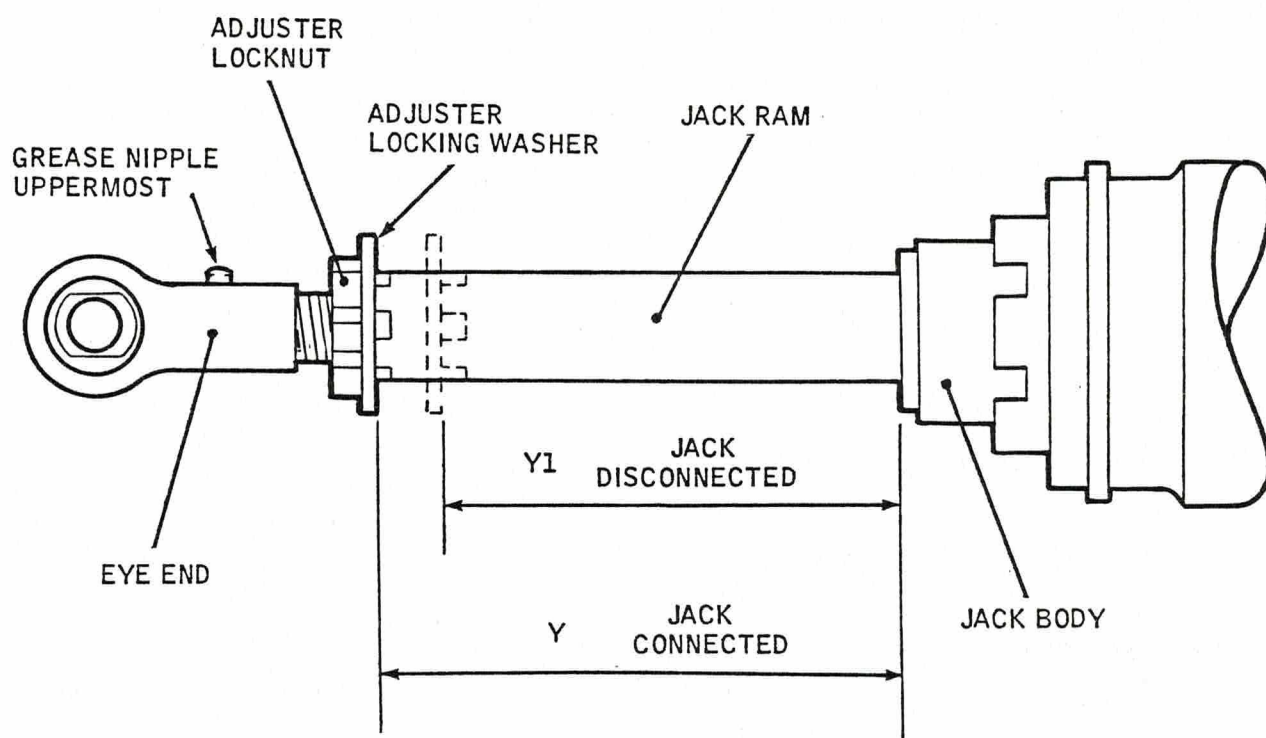
- 2.1 Undercarriage toggle switch. Ensure set to DOWN.
- 2.2 Services system. Pressurize to 3000 lbf/in².
- 2.3 Undercarriage jack. Measure dimension Y using vernier caliper (1A/9100078), (See Fig. 1).
- 2.4 Services system. Stop test trolley and exhaust pressure.
- 2.5 Pitot/Static system. Pressure to equivalent of 165 Kt.
- 2.6 Undercarriage toggle switch. Set to UP.
- 2.7 Undercarriage. Using test trolley hand pump disengage radius rod locks.
- 2.8 Undercarriage jack eye-end.
 - (i) Support jack body.
 - (ii) Remove split pin and nut and washer.
 - (iii) Remove jack eye-end special bolt.
- 2.9 Undercarriage toggle switch. Set to DOWN.
- 2.10 Undercarriage.
 - (i) Using test trolley hand pump engage radius rod locks.
 - (ii) Support jack body.
- 2.11 Services system. Pressurize to 3000 lbf/in².
- 2.12 Undercarriage jack. Measure dimension Y1 using vernier caliper (1A/9100078), See Fig.1).
- 2.13 Override setting.
 - (i) Subtract Y1 from Y.
 - (ii) Check measurement obtained is 0.050 in PLUS OR MINUS 0.010 in.
- 2.14 Services system. Stop test trolley and exhaust pressure.

Continued

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VERRIDE SETTING - UNDERCARRIAGE JACK

FIGURE 1

Continued Overleaf

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2. TESTING (Contd)

NOTE: Sub-items 2.15 to 2.17 inclusive are to be carried out only if dimension in Sub-item 2.13 is incorrect.

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|-----------------------------------|---|
| 2.15 Undercarriage toggle switch. | Set to UP and using test trolley hand pump, disengage radius rod locks. |
| 2.16 Undercarriage jack eye-end. | Fit jack eye-end special bolt. |
| 2.17 Jack ram adjuster. | (i) Slacken adjuster locknut (See Fig.1).
(ii) Adjust by rotating jack ram (Servicing Manual BK.1, Sect.3 Chap.5, Para.40).
(iii) Locate adjuster locking washer.
(iv) Tighten adjuster locknut. |

NOTE: One complete turn of jack is approximately 0.050 in.

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|-----------------------------------|--|
| 2.18 Undercarriage toggle switch. | Set to DOWN and using test trolley hand pump, engage radius rod locks. |
|-----------------------------------|--|

NOTE: Repeat Sub-items 2.7 to 2.13 inclusive until correct dimension is obtained as in Sub-item 2.13.

- | | |
|-----------------------------------|---|
| 2.19 Undercarriage toggle switch. | Set to UP and, using test trolley hand pump, disengage radius rod locks. |
| 2.20 Undercarriage jack eye-end. | (i) Fit eye-end special bolt.
(ii) Refit nut and washer.
(iii) Tighten nut and fit new split pin. |
| 2.21 Undercarriage toggle switch. | Set to DOWN and, using test trolley hand pump, engage radius rod locks. |
| 2.22 Undercarriage. | Test (SP 106. (AF)). |

43171/42172 (INSPECTOR)

3. INSPECTION STAGE

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|---------------------------|---------------------------|
| 3.1 Inspect installation. | Independent check of: |
| | (i) Assembly and locking. |
| | (ii) Override. |
| | (iii) Function. |

Continued

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

4. INDEPENDENT CHECKS

NOTE: The independent checks detailed in this item are to ensure that the undercarriage Hydrel selector slide valve is correctly positioned by specialist inspectors who have not been directly concerned with the operations detailed in this servicing procedure.

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|-----|---|---|
| 4.1 | Undercarriage toggle switch. | Ensure set to DOWN. |
| 4.2 | Services system. | Pressurize to 3000 lbf/in2. |
| 4.3 | Undercarriage indicator lamps (green) (F53: quantity 3, T55: quantity 6). | Ensure lit. |
| 4.4 | Undercarriage ground locks. | Fit. |
| 4.5 | Aircraft job card. | Endorse as follows:
Certified I have personally carried out the independent checks detailed in servicing procedure BAC F53 & T55(SA) 5A3A Section 1, SP 119 (AF) |

4 3 1 5 1 / 4 2 1 7 2

5. COMPLETION

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|-----|----------------------------------|--|
| 5.1 | Battery isolating switch. | Set to OFF. |
| 5.2 | Slave battery. | Remove. |
| 5.3 | Pitot/Static test set. | (i) Release pressure.
(ii) Disconnect. |
| 5.4 | Ground equipment. | (i) Operate to lower aircraft to ground.
(ii) Remove from vicinity of aircraft. |
| 5.5 | Tyre inflation rig (4G/1050542). | (i) Disconnect at ground air charging/release connexion.
(ii) Fit blank and wirelock. |

Continued Overleaf

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5. COMPLETETION (Contd)

- 5.6 Hydraulic test trolley. (i) Disconnect.
(ii) Remove.
- 5.7 Hydraulic pump quick release connexions (i) Reconnect to aircraft.
(Services), (Access panel (ii) Wirelock.
45P (Left)).
- 5.8 Hydraulic reservoirs. Replenish (SP 603(AF)).
- 5.9 Access panels. Refit.

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

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