

CHAP 1 AIRFRAME SP 53 AL 4 SHEET 1 OF 5	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Undercarriage D-Door Jack Shuttle Valve - Removal and Fitting	AFSC 42152 43151 42171 43171	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT		
Tyre inflation rig (4G/1050542). <u>43151</u>		
1. PREPARATION		ASSOCIATED PROCEDURES
1.1 Aircraft.	(i) Raise on jacks until all wheels are clear of ground. (ii) Trestle at FR 59.	SP603 (AF) 106 (AF) 108 (AF) 151 (AF) 152 (AF) 402 (AF)
<u>42152 / 43151</u>		
2. PREPARATION		
2.1 Ground air charging/ release connexion (Access panel 63P (left)).	Remove blank.	
2.2 Services system hydraulic pressure.	Release pressure by operating brake lever.	
2.3 Hydraulic test trolleys.	(i) Prime. (ii) Bleed.	
2.4 No.1 services ground test connexions (Access panel 45P (left)).	Connect hydraulic test trolleys.	
2.5 No.1 controls ground test connexions (Access panel 45P (left)).	Connect hydraulic test trolleys.	
2.6 External d.c. power supply.	Connect.	
2.7 Hydraulic reservoirs. (Services and No.1 controls systems).	Replenish (SP 603 (AF)).	
2.8 Tyre inflation rig (4G/1050542).	(i) Connect to ground air charging/release connexion.	
Continued Overleaf		

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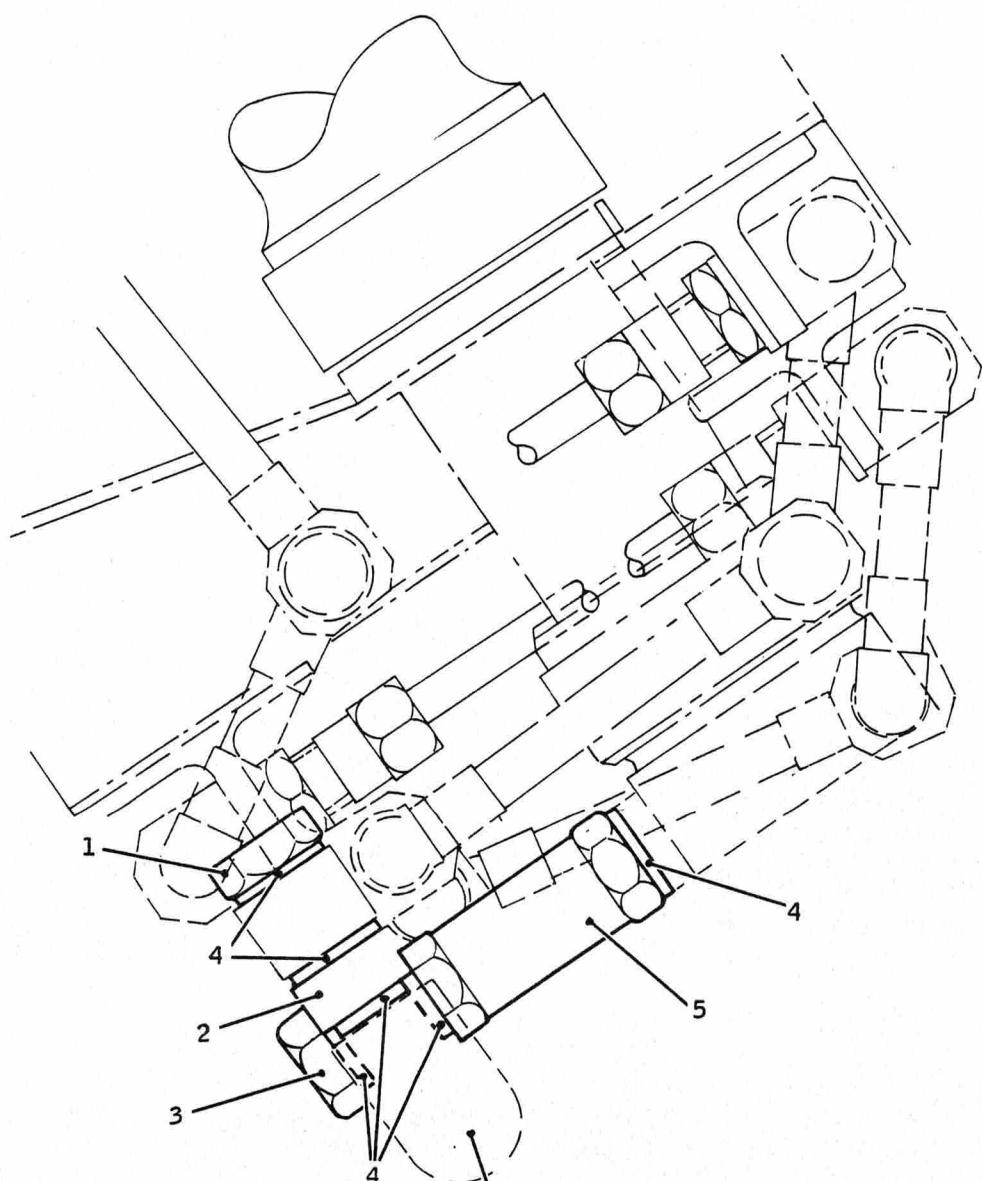
SERVICING PROCEDURE

F53 T55

BAC F53 & T55 (SA)

5A3A Section 1
2nd Edition

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throughout the work detailed on this card.



SHUTTLE VALVE
(REF ONLY)

ITEM	PART NO.	QTY
1. SPECIAL BANJO BOLT	EB2-73-3133	1
2. DISTANCE PIECE	EB2-73-3131	1
3. BANJO BOLT	AGS 1135B	1
4. BONDED SEAL	AGS 1186B	6
5. SPECIAL ADAPTER	EB2-73-4431	1

D-DOOR JACK SHUTTLE VALVE - REMOVAL/ASSEMBLY

FIGURE 1

Continued

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

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2. PREPARATION (contd)

2.8 Tyre inflation rig (4G/1050542). (contd) (ii) Set rig to deliver a pressure of between 16 and 18 lbf/in².

2.9 Access panels 127S (right) and 127P (left). Remove.

3. REMOVAL

3.1 U/C down line swivel coupling. (i) Remove wirelocking at shuttle valve connexion.
(ii) Remove banjo bolt, bonded seals and distance piece (See Fig.1).
(iii) Discard bonded seals.
(iv) Fit blank.

3.2 U/C emergency down line swivel coupling. (i) Remove wirelocking at shuttle valve connexion.
(ii) Slacken banjo bolt.

3.3 Shuttle valve. (i) Remove wirelocking.
(ii) Remove banjo bolt, bonded seals.
(iii) Discard bonded seals.
(iv) Fit blank.

3.4 U/C emergency down line swivel coupling. (i) Ease shuttle valve outboard.
(ii) Remove banjo bolt and bonded seals.
(iii) Discard bonded seals.
(iv) Fit blank.

3.5 Shuttle valve. Remove and fit blanks.

3.6 U/C D door jack. Blank at special adapter.

4. FITTING

4.1 Shuttle valve. Position to U/C emergency down line swivel coupling.

4.2 U/C emergency down line swivel coupling. (i) Remove blank.
(ii) Finger tighten banjo bolt with new bonded seals to shuttle valve.

Continued Overleaf

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4. FITTING (Contd)

4.3 Shuttle valve.

- (i) Ease inboard.
- (ii) Align shuttle valve to special adapter.
- (iii) Fit banjo bolt with new bonded seals.
- (iv) Torque tighten banjo bolt to values referenced in SP 402 (AF).

NOTE: Extreme care must be taken to avoid torque transfer to special adapter during this operation.

4.4 U/C down line swivel coupling.

- (i) Remove blank.
- (ii) Fit banjo bolt and distance piece with new bonded seals (See Fig.1).
- (iii) Ensure correct alignment and torque tighten to values referenced in SP 402 (AF).

NOTE: Extreme care must be taken to avoid torque transfer to the shuttle valve during this operation.

4.5 U/C emergency down line swivel coupling.

Ensure correct alignment and torque tighten to values referenced in SP 402 (AF).

NOTE: Extreme care must be taken to avoid torque transfer to the shuttle valve during this operation.

4.6 Banjo bolts.

Wirelock.

4.7 Services and No.1 controls system.

Bleed (SP 151 (AF)),
(SP 152 (AF)).

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5. TESTING

5.1 Undercarriage system.

Test. (SP 106 (AF)),
(SP 108 (AF)).

Continued

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6. INSPECTION STAGE

6.1 Inspect installation. Independent check of:
 (i) Assembly and Locking.
 (ii) Function.

7. INDEPENDENT CHECK

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

7.1 External d.c. power supply. Set to ON.

7.2 Undercarriage selector. Ensure set to DOWN.

7.3 Services system. Pressurize to 3000 lbf/in².

7.4 Undercarriage indicator lamps (green) (F53: quantity 3, T55: quantity 6). Ensure lit and locks engaged.

7.5 Undercarriage ground locks. Fit.

7.6 Aircraft job card. Endorse as follows:
 Certified I have personally carried out the independent checks detailed in servicing procedure BAC F53 and T55 (SA) 5A3A Section 1, SP53 (AF).

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8. Completion.

8.1 Access panels 127S (right and 127P (left)). Refit.

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



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