

CHAP 1 AIRFRAME SP 32 AL 8 SHEET 1 OF 9	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Leading Edge Fuel Tank - Removal and Fitting.	AFSC 42450 43171 43151 42370 42350	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		
SPECIAL TOOLS AND EQUIPMENT Nil.		ASSOCIATED PROCEDURE
<u>43151 / 42450</u>		SP106 (AE)
<p>1. PREPARATION</p> <p>1.1 Aircraft. Defuel.</p> <p>1.2 Cable box fairing. Remove.</p> <p>1.3 Detachable fairing (outboard). Remove.</p> <p>1.4 Access panel 114. Remove.</p> <p>1.5 Inboard and outboard fuel pipes (quantity 4). Disconnect.</p>		
<u>43151 / 42350</u>		
<p>2. PREPARATION</p> <p>2.1 Battery switch. Set to OFF.</p> <p>2.2 External power supplies. Ensure disconnected.</p> <p>2.3 Terminal block JB7 or JB8 cover. Remove.</p> <p>2.4 Fuel pump cables quantity 2 at JB7 or JB8. Disconnect.</p> <p>NOTE: Item 2.5 applies to Mk 55 only.</p> <p>2.5 Electrical sockets. Disconnect quantity 3 electrical sockets at JB7 or JB8.</p> <p>2.6 Cable shield. Remove.</p> <p>2.7 Co-axial cables at terminal bracket (quantity 10). Disconnect. (Access is through panel 114).</p> <p>2.8 Tank rib No.1 co-axial cables. Disconnected (Access is through panel 114).</p>		
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Continued Overleaf</div>		

CHAP 1 AIRFRAME
SP 32 AL 8
SHEET 2 OF 9

SERVICING PROCEDURE
F53 T55

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

Safety and Servicing Notes are to be complied with
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43151/42450

3. REMOVAL

3.1 Spar 1 lower boom
countersunk bolts.

Remove.

3.2 Spar 1 upper boom
countersunk bolts.

Remove with exception of
large bolt at inboard end
(Part No. EB2-20-6639) (See
Fig.2).

3.3 Main attachment brackets
access panels (quantity
3).

Remove.

3.4 Main attachment brackets.

(i) Examine mating faces
for presence of shims.
(ii) Note their positions to
ensure correct assembly,
when refitting tank.

3.5 Inboard attachment bracket
bolts (quantity 4).

Remove.

3.6 Remaining attachment
brackets, bolts, nuts and
washers.

Remove, with the exception of
the top bolt in the outboard
bracket (See Fig.2).

3.7 Leading-edge fuel
tank.

(i) Support manually.
(ii) Remove remaining
countersunk bolt and
bracket bolt.
(iii) Place in storage stand.

43151/42350

4. EXAMINE

4.1 Electrical cables at Leading
edge tank.

Examine exposed portion of
leading edge tank fuel pump
supply cable for damage,
chafing and deterioration.

4.2 Electrical cables at front
spar.

(i) Cable looms at front
spar. Examine for damage
chafing and
deterioration.
a. Between ribs 1 and 5
and at JB7 (left
front spar).
b. Between ribs 17 and
25 and at JB8 (Right
front spar).

Continued

CHAP	1	AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP	32	A L 8	F53	T55
SHEET	3	OF 9		5A3A Section 1 2nd Edition

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

43171

5. EXAMINE

- 5.1 Aileron Controls at front spar. Aileron control rods, roller guides and sealed bearings at front spar: Examine rods for wear. Ensure rollers are free to rotate.

43171 (INSPECTOR)

6. INSPECTION STAGE

- 6.1 Prior to fitting of tank. Inspect both the leading-edge tank and the mating wing structure.

43151 / 42450

7. FITTING

- 7.1 Leading-edge fuel tank. (i) Offer up to mainplane.
(ii) Refit large countersunk bolt (Part No. EB2-20-6639) to spar 1 upper boom inboard end (See Fig.2).
(iii) Refit top bolt in outboard bracket (See Fig.2).
- 7.2 Main attachment bracket. Refit remaining bolts, nuts and washers, ensuring correct number of shims have been fitted to mating surfaces.
- 7.3 Spar 1 upper boom countersunk bolts. Refit (See Fig.1).
- 7.4 Spar 1 lower boom countersunk bolts. Refit (See Fig.1).

43151 / 42350

8. FITTING

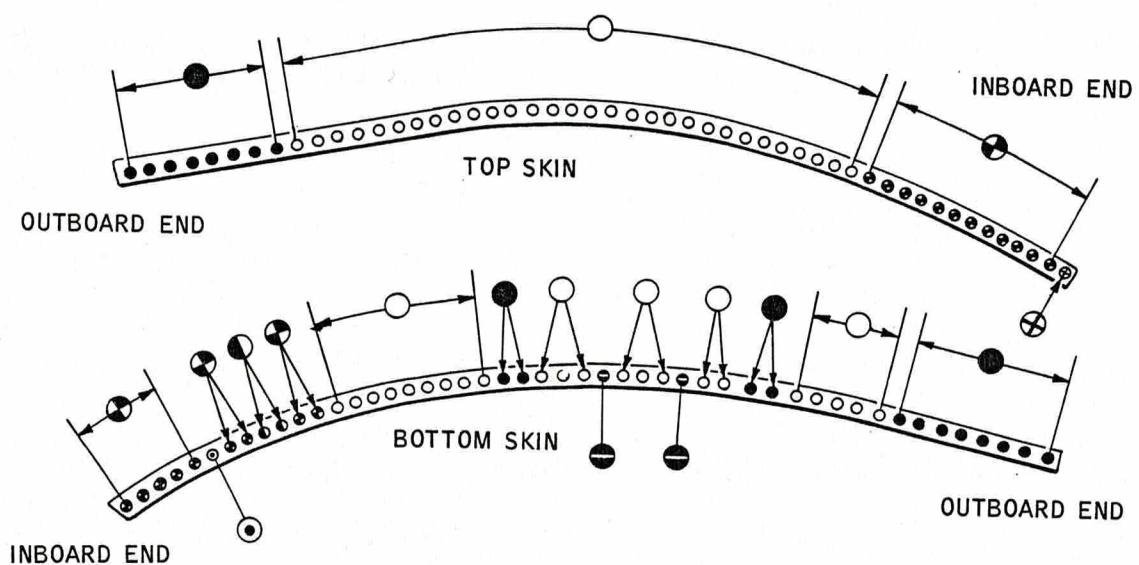
- 8.1 Battery Switch. Set to OFF.
- 8.2 External power supplies. Ensure disconnected.
- 8.3 Cable shield. Refit.
- 8.4 Fuel pump cables (Quantity 2) at JB7 or JB8. Connect and refit terminal block cover.
- NOTE: Item 8.5 applies to Mk 55 only.
- 8.5 Electrical sockets. Reconnect quantity 3 electrical sockets at JB7 or JB8

CHAP 1 AIRFRAME
SP 32 A L 8
SHEET 4 OF 9

SERVICING PROCEDURE
F53 T55

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

Safety and Servicing Notes are to be complied with
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- EEAS .251/35/48/E ● EEAS .251/45/48/E
- ◐ EEAS .251/35/49/G ① AS .1248/4E
- ① EEAS .251/50/49/G ○ EB2-20-7983
- ⊕ EB-20-6639

LEADING-EDGE TANKS - KEY TO ATTACHMENT BOLTS POSITIONS
FIGURE 1

Continued

CHAP 1 AIRFRAME
SP 32 AL 8
SHEET 5 OF 9

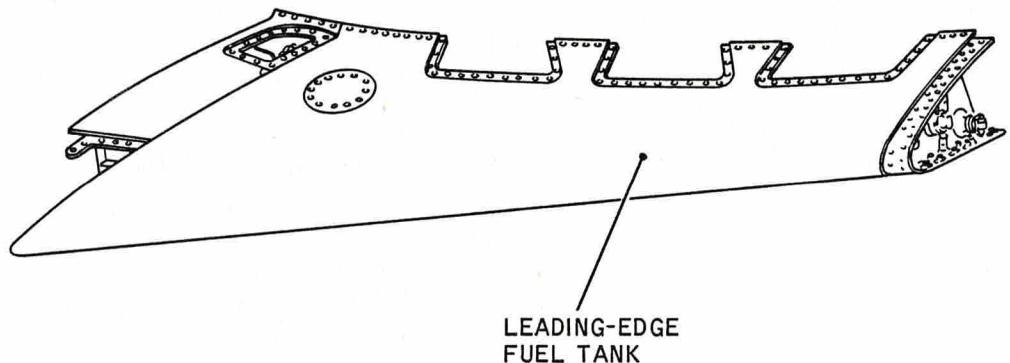
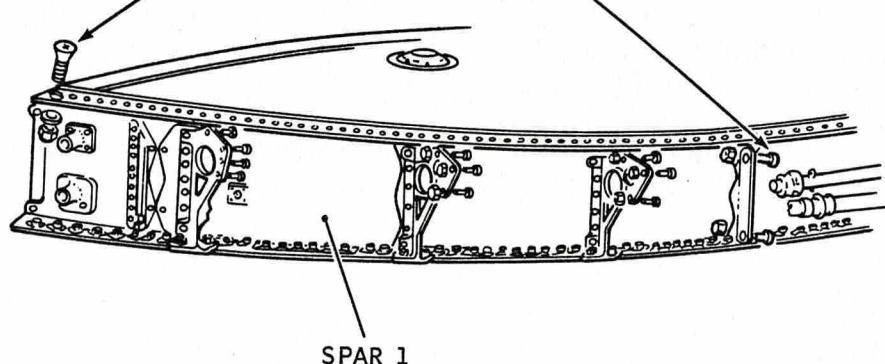
SERVICING PROCEDURE
F53 T55

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

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REMOVE THESE BOLTS LAST
AND INSERT THEM FIRST



LEADING-EDGE FUEL TANKS - REMOVAL AND ASSEMBLY
FIGURE 2

Continued Overleaf

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

CHAP 1 AIRFRAME
SP 32 AL 8
SHEET 6 OF 9

SERVICING PROCEDURE

F53 T55

BAC F53 & T55 (SA)

5A3A Section 1
2nd Edition

Safety and Servicing Notes are to be complied with
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32551

9. FITTING

- 9.1 Tank rib No.1 co-axial cables. Connect (Access through panel 114).
- 9.2 Co-axial cables at terminal bracket (quantity 10). Connect (Access through panel 114).

43151/42450

10. FITTING

- 10.1 Inboard and outboard fuel pipes (quantity 4). Reconnect.

NOTE 1: Ensure adequate clearance between hose (26DK/13805) and aileron control rod.

NOTE 2: Items 11 to 13 apply to Mk 55 only.

11. TESTING

- 11.1 Aircraft. Jack and trestle.
- 11.2 Undercarriage. Function test SP 106 (AF).
- 11.3 Flap control system. (i) Operate.
(ii) Check for correct function sense and indications.
- 11.4 Fuel transfer cock. Check for correct operation.
- 11.5 Lighting. (i) Check "Fuel 1 and 2" on AWP.
(ii) Check all external lighting.

43171/42172 (INSPECTOR)

12. INSPECTION STAGE

- 12.1 Independent Check. (i) Carry out an independent check of the flap control system for correct function, sense and indication.
(ii) Carry out an independent check on undercarriage for correct function, indication and sense.

Continued

CHAP 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
SP 32 AL 9	F53	T55
SHEET 7 OF 9		2nd Edition

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

43171/42172 (INSPECTOR)

13. INDEPENDENT CHECKS

13.1 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.

13.1 Undercarriage toggle switch. Ensure set to DOWN.

13.2 Services system. Pressurize to 3000 lbf/in².

13.3 Undercarriage indicator lamps (green) (F53: quantity 3, T55: quantity 6) Ensure lit.

13.4 Undercarriage ground locks. Fit.

13.5 Aircraft job card. Endorse as follows:

Certified I have personally carried out the independent checks detailed in Servicing Procedures BAC F53 & T55 (SA) 5A3A Section 1, SP 32 (AF).

43151/42152

14. COMPLETION

14.1 Pitot/Static test set. (i) Release pressure.
(ii) Remove.

14.2 Services system. Release pressure by operating brake lever.

14.3 Battery isolating switch. Set to OFF.

14.4 Slave battery. Remove.

14.5 Ground equipment. (i) Operate to lower aircraft to ground.
(ii) Remove from vicinity of aircraft.

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CHAP 1 AIRFRAME SP 32 AL 8 SHEET 8 OF 9	SERVICING PROCEDURE F53 T55	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
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43151/42152

14. COMPLETION (Contd)

- 14.6 Tyre inflation rig. (i) Disconnect at ground air charging/release connexion.
(ii) Fit blank and wirelock.
- 14.7 Hydraulic trolley test. (i) Disconnect.
(ii) Remove.
- 14.8 Hydraulic pump quick release connexions (Services access panel 45P (Left)). (i) Reconnect to aircraft.
(ii) Wirelock.
- 14.9 Hydraulic reservoirs. Replenish (SP 603 (AF)).
- 14.10 Access panels. Refit.
- 14.11 Canopy seal guards. Remove.
- 14.12 Armament safety break. (i) Remove flag and lanyard from stowage.
(ii) Reconnect lanyard.

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

43151/42450

15. TESTING

- 15.1 Aircraft. Refuel.
- 15.2 Inboard Fuel pipe connexions. Look for leaks.
- 15.3 Lightweight pipe connector on larger outboard pipe. Look for leaks.
- 15.4 Associated fuel gauge. Check for correct quantity of fuel.
- 15.5 External d.c. power supply. (i) Connect to aircraft.
(ii) Switch ON.
- 15.6 HP cocks. Ensure closed.

Continued

CHAP. 1 AIRFRAME	SERVICING PROCEDURE	BAC F53 & T55 (SA)
S.P. 32 A.L. 8	F53 T55	5A3A Section 1
SHEET 9 OF 9		2nd Edition

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

43151/42450 (IN)

15. TESTING (Contd)

- 15.7 Fuel pumps. (i) Switch on pumps in associated mainplane and look for leakage from the smaller of the two outboard pipes.
(ii) Switch off.

16. GENERAL

- 16.1 External d.c. power supply. Disconnect.
- 16.2 Inboard fairing. Refit.
- 16.3 Outboard detachable fairing. Refit.
- 16.4 Cable box fairing. Refit.
- 16.5 Main attachment brackets access panels (quantity 3). Refit.



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