

CHAP. 1 AIRFRAME S.P. 6A A.L. 8 SHEET 1 OF 9	SERVICING PROCEDURE F53	BAC F53 & T55 (SA) 5A3A Section 1 2nd Edition
Canopy - Fitting	AFSC 43151 32851 42252 43171 53450 42272 32850 42251	TIME EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		

SPECIAL TOOLS AND EQUIPMENT

Canopy sling (26DK/95263).
 Spring balance (1A/4707675).
 Multi purpose servicing hoist (4GC/4232366).
 Jib No.3. (4GC/4232396).

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NOTE 1: If previous canopy was jettisoned by use of cartridge-operated firing unit ensure system has been refurbished in accordance with Repair Manual, Part 2, Repair Leaflet B1/4.

NOTE 2: When fitting a new canopy correct clearance below the rim of windscreen arch and forward edge of canopy should be obtained by removal or fitment of shims beneath abutment pads.

43151/42252

1. PREPARATION

1.1 Main battery. Ensure connected.
 1.2 Battery master switch. Ensure set to OFF.
 1.3 Canopy hinge release mechanism assembly (See Fig.1). Examine, components for fretting and corrosion. Replace as necessary.

2. PULL-OFF CHECK

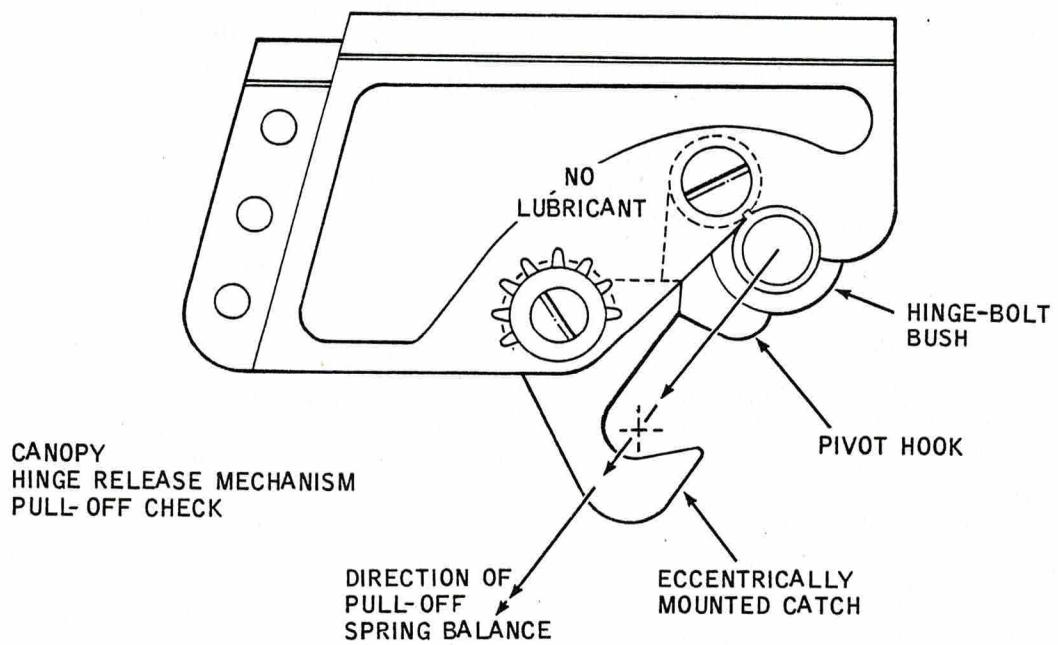
2.1 Hinge arm bush mechanism (left and right) (See Fig.2). (i) Place hinge bush in profile of hinge arm.
 (ii) Rotate free pivoted hook to engage outer diameter of bush.
 (iii) Hold hook in this position.
 2.2 Eccentrically mounted catch (See Fig.1). (i) Rotate to engage flat on bush retaining hook.
 (ii) Attach spring balance (1A/4707675).

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F53

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CANOPY HINGE RELEASE MECHANISM
PULL-OFF CHECK

FIGURE 1

Continued

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2. PULL-OFF CHECK (contd)

2.2 Eccentrically mounted catch (See Fig.1) (contd)

- (iii) With a straight pull dislodge catch and permit free movement of bush retaining hook.
- (iv) Ensure spring balance reading is between 50 and 90 lbs.

NOTE: Sub-items 2.3 to 2.5 are applicable only if reading obtained at Sub-item 2.2 is incorrect.

2.3 Eccentrically mounted catch bush.

Withdraw countersunk bolt until locking tab is clear of locking recess.

2.4 Eccentric bush.

- (i) Rotate to move catch pivot point forward.
- (ii) Rotate to increase or decrease pressure on catch and hook until loading is correct.
- (iii) Tighten countersunk bolt until locking tab on eccentric bush is fully engaged with one of radial recesses in hinge arm.

2.5 Countersunk bolt.

Relock by centre popping.

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3. INSPECTION STAGE - ASSEMBLY CHECK

3.1 Inspect eccentrically mounted catch.

Ensure correctly assembled and locked.

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4. PREPARATION

4.1 Canopy lifting eye-bolts.

Screw in fully by hand.

4.2 Canopy sling.

Fit (26DK/95263).

4.3 Canopy lifting eye-bolts.

Align with sling.

4.4 Multi purpose servicing hoist with No.3 Jib.

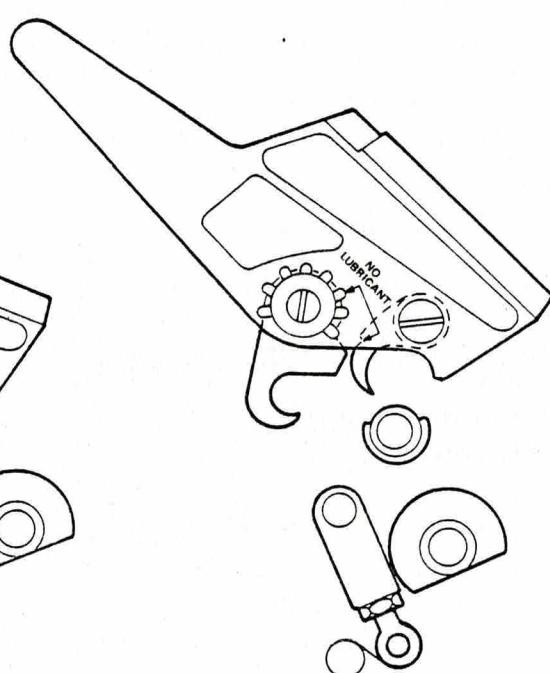
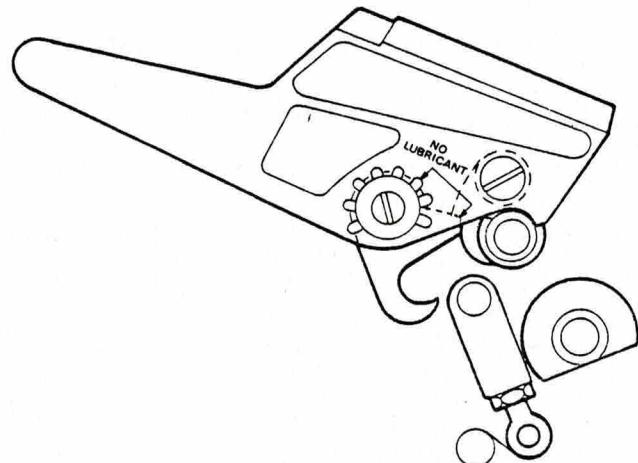
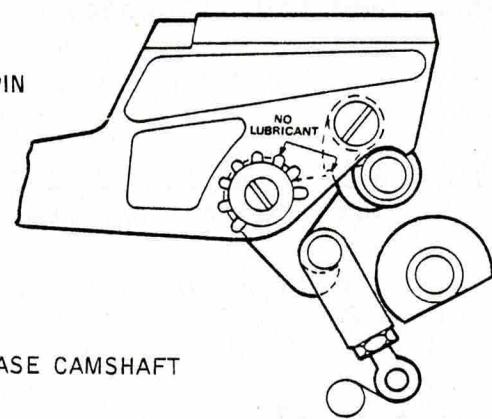
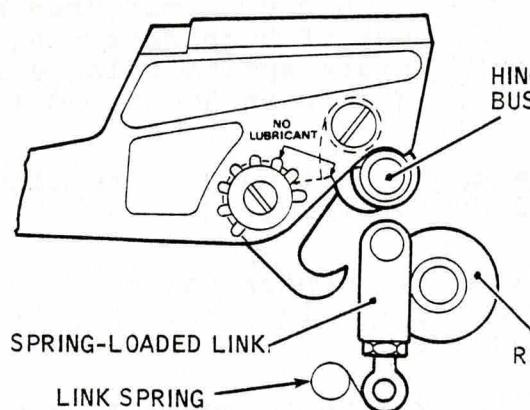
Connect to sling.

4.5 Air drier blanks.

Remove.

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ACTION OF HINGE RELEASE MECHANISM

FIGURE 2

Continued

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5. INSPECTION STAGE - ASSEMBLY CHECK

5.1 Inspect bush hook and catch (left and right). Ensure correctly fitted and locked.

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6. FITTING

6.1 Canopy.

- (i) Raise using hoist and jib.
- (ii) Position on aircraft in half open position.

6.2 Hinge bolts.

- (i) Refit.
- (ii) Wirelock.

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7. INSPECTION STAGE - ASSEMBLY CHECK

7.1 Inspect hinge release counter shaft (See Fig.2). Ensure left and right release camshaft flat is bearing on spring-loaded links in spring hinge box.

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8. FITTING

8.1 Canopy selector. Set to OPEN.

8.2 Canopy jack ram. Extend, using aircraft hand-pump.

8.3 Jack attachment bolt.

- (i) Refit.
- (ii) Check clearance between faces of eye-end fitting and lugs of canopy attachment bracket.

NOTE 1: Ensure jack attachment nut has chamfered edge outboard.

NOTE 2: If gap at any side exceeds 0.028 in. fit shim (26DK/36047) to either one or both sides if necessary.

(iii) Lock nut and bolt with wire.

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8. FITTING (contd)

8.4 Air drier hoses.	(i) Reconnect. (ii) Ensure clip Part No. AGS605/0 is fitted to right hand hose and positioned so that the tightening screw is outboard of pipe with centre line vertical and screw head downwards. (iii) Ensure left hand hose has engagement on bulkhead connector and canopy connector of 1 in.
8.5 Vent hose.	Reconnect.
8.6 IFF aerial.	Reconnect.
8.7 IFF aerial cable from aerial to rear bulkhead.	Ensure does not foul during canopy operation.

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9. TESTING

9.1 IFF installation. Test (SP 102 (RAD)).

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10. FITTING

10.1	Handling equipment.	Remove.
10.2	Canopy eye-bolts socket blanking screws.	Refit.

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11. INSPECTION STAGE - ASSEMBLY CHECK

11.1 Inspect bush lock and catch. Using torch and mirror ensure correctly fitted and locked.

11.2 Jack attachment bolt. Ensure correctly assembled and locked.

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12. TESTING

12.1 Canopy system. Test (SP 103 (AF)).

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NOTE: Item 13 is applicable only if a new canopy has been fitted.

13. TESTING

13.1 Cabin pressurization. Test (SP 116A (AF)).

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14. INSPECTION STAGE - ASSEMBLY CHECK

14.1 Spring retaining clips and locknuts on shootbolt controls rods (left and right). Check clears panelling by 0.06 in. minimum throughout operation of shoot-bolt rods.

14.2 Canopy. Close with hydraulic pressure ensuring lock closes with shoot bolts.

14.3 Shoot bolts (See Fig.3). (i) Ensure penetrate windscreen arch by 0.70 in.
(ii) Release.
(iii) Ensure no excessive force is required to engage and disengage.

14.4 Canopy. Open, using aircraft hand-pump.

15. INSPECTION STAGE

15.1 Canopy fitting. Independent check (SP 129 (AF)).

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16. FITTING AND TESTING

16.1 UHF homing RF unit. (i) Refit.
(ii) Test (SP 105 (AC)).

16.2 UHF homing AF unit. (i) Refit.
(ii) Test (SP 107 (AC)).

Continued Overleaf

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16. FITTING AND TESTING (contd)

16.4 Access panels 22P and 22S Refit.
(left and right).

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17. COMPLETION

17.1 Access Panel 23 and fibre-glass breakaway panels. Refit.

17.2 Ejection seat safety catch withdrawal cable. Connect to canopy.

42272 (INSPECTOR)

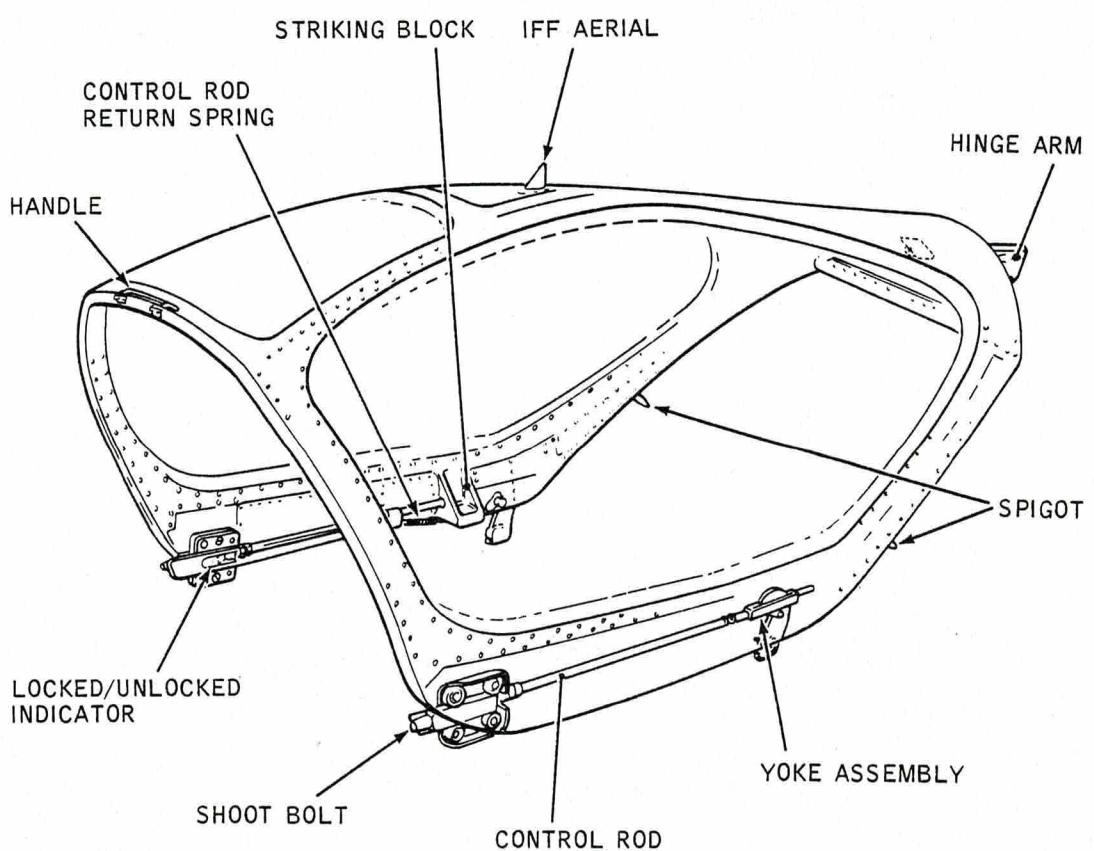
18. INSPECTION STAGE

18.1 Ejection seat. Independent check (SP 102 (W)).

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

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CANOPY SHOOT BOLTS

FIGURE 3

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