



CHAP 1 AIRFRAME

SP 24 AL 4

SHEET 2 OF 7

SERVICING PROCEDURE

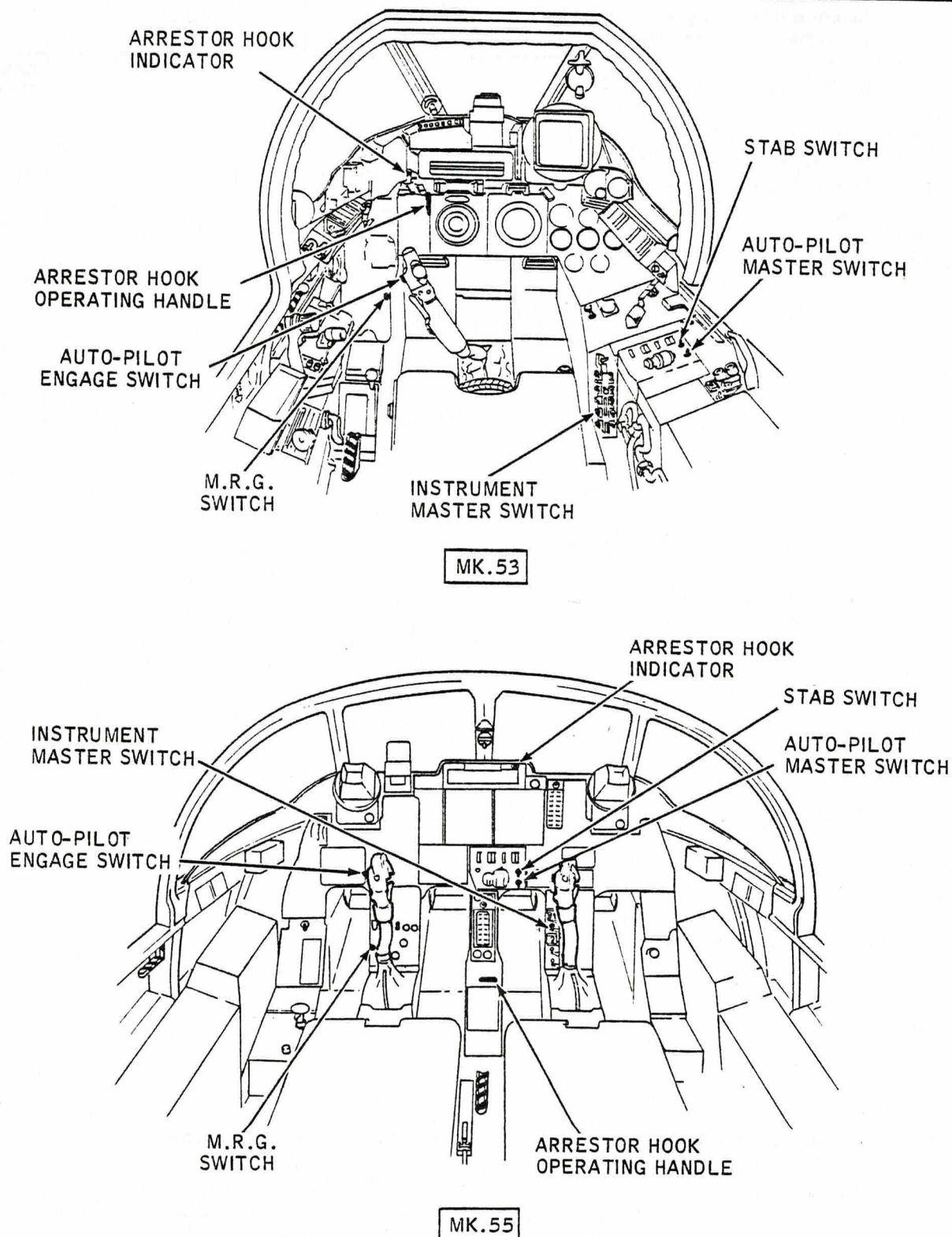
F53 T55

BAC F53 & T55 (SA)

5A3A Section 1

2nd Edition

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



INSTRUMENT AND AUTO-PILOT SWITCHES  
FIGURE 1

Continued

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

CHAP 1 AIRFRAME

SP 24 AL 4

SHEET 3 OF 7

SERVICING PROCEDURE

F53

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42152/43151

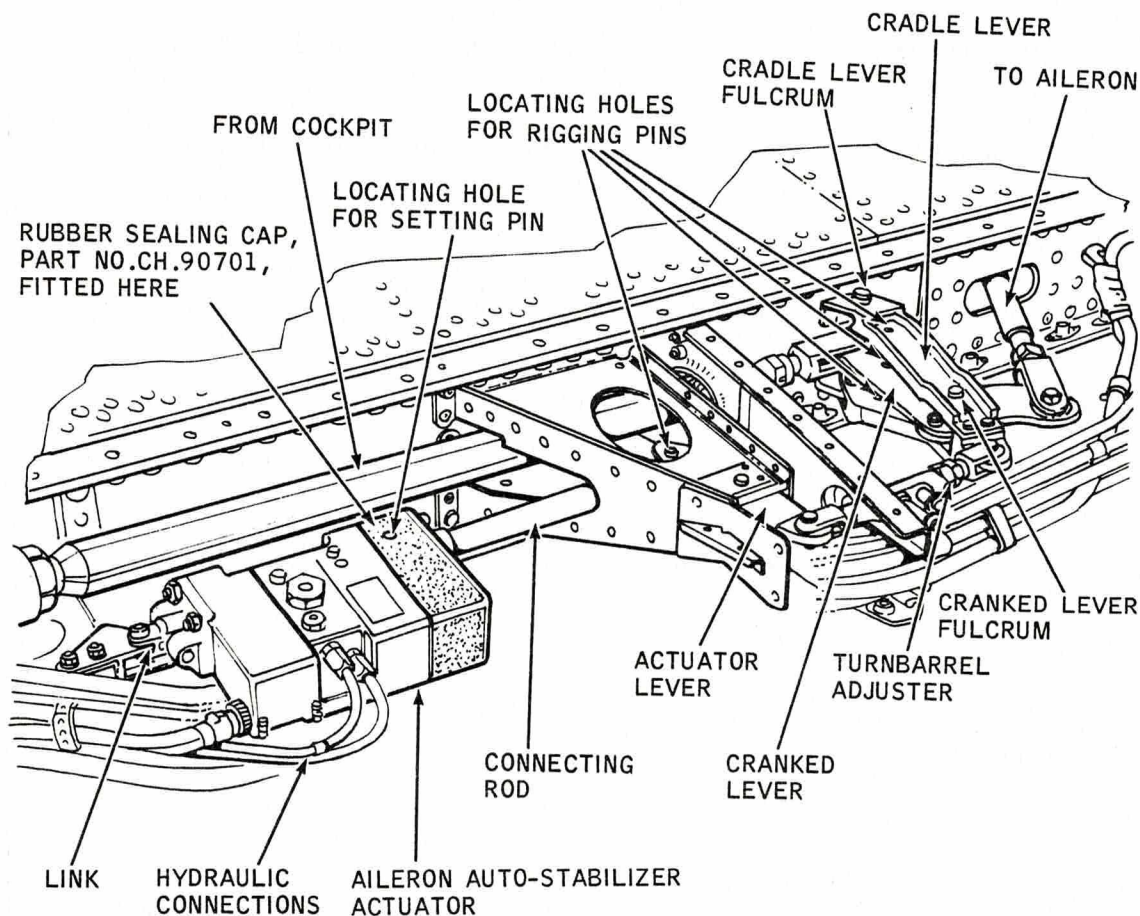
1. PREPARATION (Continued).

- |      |   |  |
|------|---|--|
| 1.10 | External a.c. power supply.   | (i) Connect.<br>(ii) Switch to ON.   |
| 1.11 | Trim switch.  | Ensure indicating neutral on cockpit gauge.  |
| 1.12 | MRG switch.   | Set to OFF (See Fig.1).  |
| 1.13 | STAB switch (On controller).  | Set to OFF (See Fig.1).  |
| 1.14 | Autopilot engage switch (On control column).  | Set to OFF (See Fig.1).  |
| 1.15 | Instrument master switch.   | Set to ON (See Fig.1)  |
| 1.16 | Autopilot master switch (On controller).  | Set to ON (See Fig.1).   |
| 1.17 | Aileron auto-stabilizer actuator.   | (i) Set to neutral using aircraft hand pump.<br>(ii) Check neutral using setting pin (26DK/95134) (See Fig.2). |
| 1.18 | Aileron auto-stabilizer actuator.   | Remove setting pin.  |
| 1.19 | Aileron travel gauges.  | Fit (26DK/95772) (Left);<br>(26DK/95773) (Right).  |
| 1.20 | Services system.  | Pressurize to 3000 lbf/in2.  |
| 1.21 | Controls system.  | Pressurize to 3000 lbf/in2.  |
| 1.22 | Aileron system vertical torque shaft.<br>(Access panel 26S(Right) F53).<br>(Access panel 20S(Right) T55). | Insert locating pin (26DK/95127) (See Fig.3).  |
| 1.23 | Aileron system.   | Check neutral on SPAR 1 at cradle lever and actuator lever using locating pins (26DK/95127) (See Fig.2).       |
| 1.24 | Aileron system.   | Remove locating pins used in item 1.23.  |

Continued Overleaf

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LEFT WING SHOWN:  
RIGHT WING SIMILAR

AUTO-STABILIZER - ACTUATOR INSTALLATION

FIGURE 2

Continued

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1. PREPARATION (Continued)

- 1.25 Aileron system vertical torque shaft. Remove locating pin.
- 1.26 Services & No.1 controls. Stop.  
hydraulic test trolleys.
- 1.27 Services and No.1 controls Exhaust pressure.  
hydraulic systems.
- 1.28 Tyre inflation rig (4G/1050542). (i) Remove.  
(ii) Ensure all air is released  
and fit and tighten blank.
- 1.29 Autopilot master switch (On controller). Set to OFF.
- 1.30 Instrument master switch. Set to OFF.
- 1.31 External d.c. power supply. Set to OFF.
- 1.32 External a.c. power supply. Set to OFF.
2. REMOVAL
- 2.1 Auto-stabilizer actuator pig-tail cable  
(At in-line connector). Disconnect.
- 2.2 Hydraulic pressure connexion. (i) Disconnect (See Fig.2).  
(ii) Fit blanks.
- 2.3 Hydraulic return connexion. (i) Disconnect (See Fig.2).  
(ii) Fit blanks.
- 2.4 Adjustable connecting rod to actuator ram (See Fig.2). Disconnect at actuator lever (See Fig.2).
- 2.5 Actuator inboard attachment shear pin (See Fig.2). (i) Remove split pin and collar.  
(ii) Disconnect.
- 2.6 Auto-stabilizer actuator. Remove.

Continued Overleaf

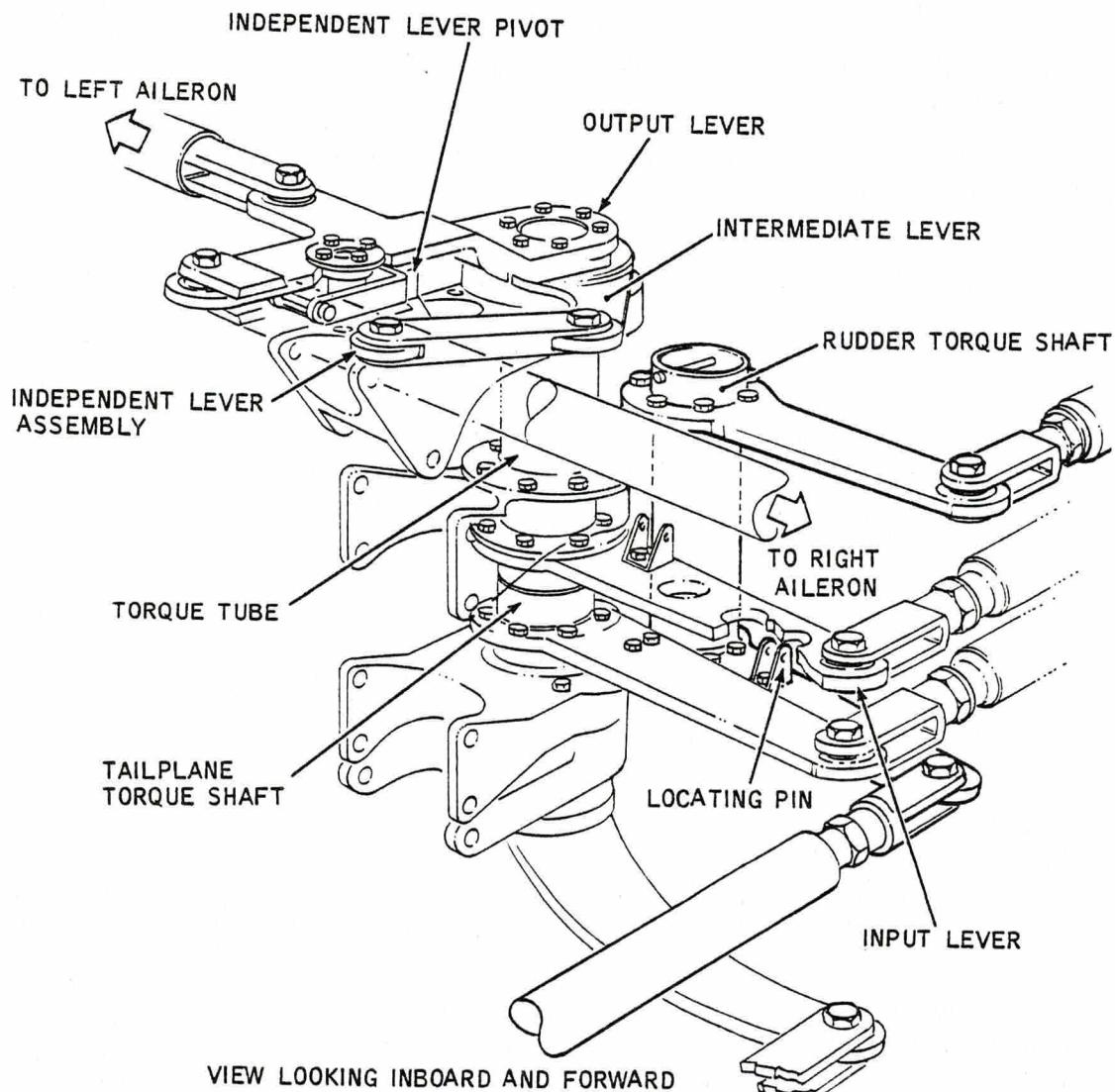
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NON-LINEAR GEARING MECHANISM  
FIGURE 3

Continued

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3. COMPLETION

- 3.1 Auto-stabilizer actuator. Record pin centre (From connecting rod end to auto-stabilizer link, using locally manufactured trammels (26DK/NIV)).
- 3.2 Adjustable connecting rod. Remove from actuator complete with lock nut.
- 3.3 Rear pick-up link. Remove from actuator.



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