

## **FLIGHT MANUAL SUPPLEMENT RADIO BECKER**

**Modification according to MVFK-01 of Scottish Aviation Bulldog  
Series 100 Model 101 Version D**

Performed by IAPS

**AIRCRAFT REGISTRATION: SE-MEK**

**AIRCRAFT SERIAL NUMBER: 188**

This supplement shall be attached to the Flight Manual when the conversion is accomplished.  
For limitations, procedures and performance information not contained herein, consult the  
basic Flight Manual and applicable supplements.

SCAA (Swedish Civil Aviation Administration) approves this supplement.

Norrköping Sweden      Date:

## LIST OF EFFECTIVE PAGES

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**Section**

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**Section 0**

**INTRODUCTION**

**Contents of the Royal Swedish Air Force modification to aircraft type Bulldog series 100 model 101 in chronological system.**

Introduction of gyrosyn compass and gyro slaving equipment.

Introduction of new type of turn and slip indicator (electrical).

Introduction of new VHF-communications transceiver, transponder, encoder, clock and introduction of ELT 406 (Emergency Location Transmitter).

Introduction of transponder and new dial for the altimeter, vertical speed indicator and speed indicator to the measurements foot, foot per min and knot.

Modifications in purpose to transfer SK61.070 (the Royal Swedish Airforce registration number) to the civil register as Bulldog (Series 100, Model 101). The modification consists of the following items:

- Introduction of a horn for the artificial stall warning system.
- Introduction of wing-flap position indicator
- Relocation of the wing-flap control
- Modification of the “Supply system control equipment and circuits” by separate the stall warning and boost pump system by two different circuit breaker
- Modification of the control lock, i a w locking the left side control column with safety belt harness
- Introduction of a amplifier to the VHF-com system reference to increase the system reliability
- Introduction of alternative static source
- Introduction of placards and labels.

**MVFK changes**

Change of VHF transceiver from Becker AR2010 to Becker AR6201 (8,33kHz)

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### Scottish Aviation Bulldog Series 100 Model 101 Version D

## Section 1 GENERAL

The following additions or changes are made to the information contained in supplement No 1 in the Approved Flight Manual Doc. No. SH.3.1.

### Applicability

This supplement applies to SE-MEK, Scottish Aviation Bulldog Series 100 Model 101 Version D modified according to MVFK-01 (Change of VHF tranceiver).

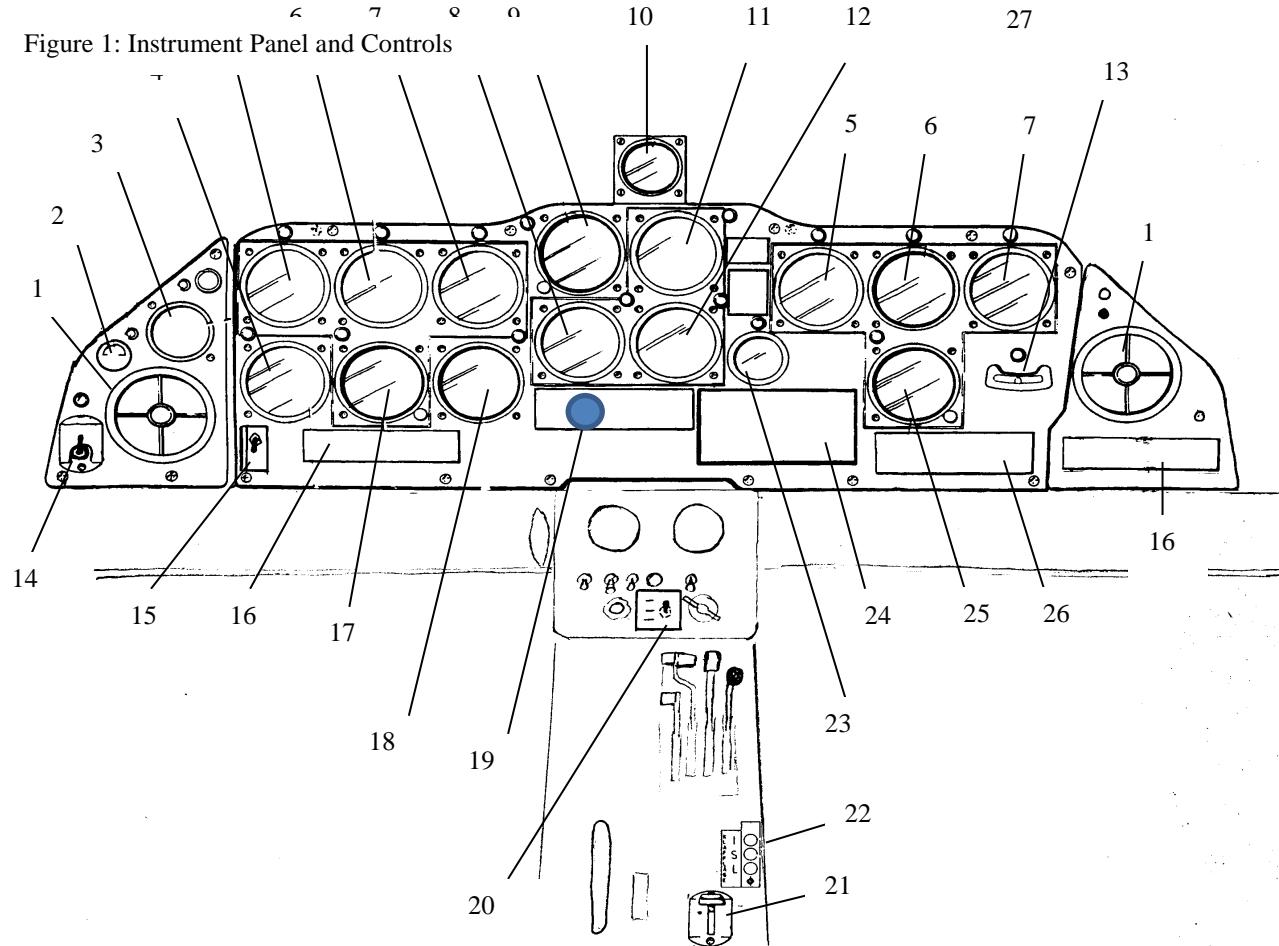
### Instrument and controls

1. Fresh air louvres
2. Synchronies indicator for the gyroscopic direction indicators.
3. Clock
4. Turn and slip indicator
5. Airspeed indicator
6. Gyroscopic bank and pitch indicator
7. Altimeters
8. VOR-indicator
9. Oil temperature/oil pressure/cylinder head temperature indicator
10. Magnetic compass
11. Manifold pressure / fuel flow indicator
12. Engine rotational speed indicator
13. Slip indicator
14. Alternative static source selector
15. VHF-com emergency switch
16. Intercom panels
17. Gyrosyn compass
18. Vertical speed indicator
19. VHF communication transmitter and receiver (8,33 kHz)
20. Switch for wing-flap position indicator (Test and Dim)
21. Wing -flap selector
22. Wing-flap position indicator
23. Vacuum gauge
24. VHF navigation receiver
25. Gyroscopic compass
26. Transponder
27. ELT 406 remote panel

The difference between this layout and that given in Figure 1 on page 6 in Flight Manual Supplement are the change of VHF radio from a rectangular Becker AR2010 to a 62 mm round Becker AR6201.

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Figure 1: Instrument Panel and Controls



### Avionics

Panel mounted avionic equipment is located as shown in Figure 1.

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### Section 2 LIMITATIONS

No change

### Section 3 EMERGENCY PROCEDURES

No change

### Section 4 NORMAL PROCEDURES

No change

### Section 5 PERFORMANCE

No change

### Section 6 WEIGHT AND BALANCE

The influence on weight and balance characteristics is shown in the table below.

#### Weight and Balance change:

Item	Installation instructions	Cg. Stn [m]	Weight [kg]	Moment [kg · m]
Becker AR2010 removal	MVFK 2017-01	1,4	-1,3	-1,82
Becker AR6201 mount	MVFK 2017-01	1,4	0,85	+1,19

“Airplane Mass & Balance Data Sheet” is updated with these figures.

### Section 7 DESIGN FEATURES

#### Avionics

Aircraft is fitted with a Becker AR6201 VHF radio. Special user instructions can be found in attached Becker AR6201 User Manual