

# **Chapter 23**

## **Communication**

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## **23-00-00**

## **GENERAL**

The aircraft is equipped with a BECKER communication system. Maintenance work or overhaul of the this system requires consultation of the manufacturer. (Refer to BECKER Flugfunkwerk GmbH).

## **23-10-00**

### **Speech communication**

The VHF-communication system consists of:

- 1 transmitter/receiver, VHF radio BECKER AR 3201
- 2 circuit breaker 5Amp.
- 3 VHF whip antenna (Moba 210 FA) BECKER 1A001
- 4 switch (radio master)
- 5 Audio selector box

## **23-10-01**

### **BECKER AR 3201**

#### **NOTE**

**The informations given for VHF radio AR 3201 are based on the manufacturer's operator's and installation manual. Refer to BECKER operator's and installation manual for further information.**

#### **Operation Instructions**

For a better understanding of the following operation instructions refer to Figure 1 additionally.

- 1 Switch on
- 2 Frequency selection

Frequency selection is only possible when the channel selector knob is in the "A"-position.

### 3 Channel memories

The AR 3201 is fitted with 4 non-volatile channel memories, which can be programmed from the front panel.

### 4 Channel storage

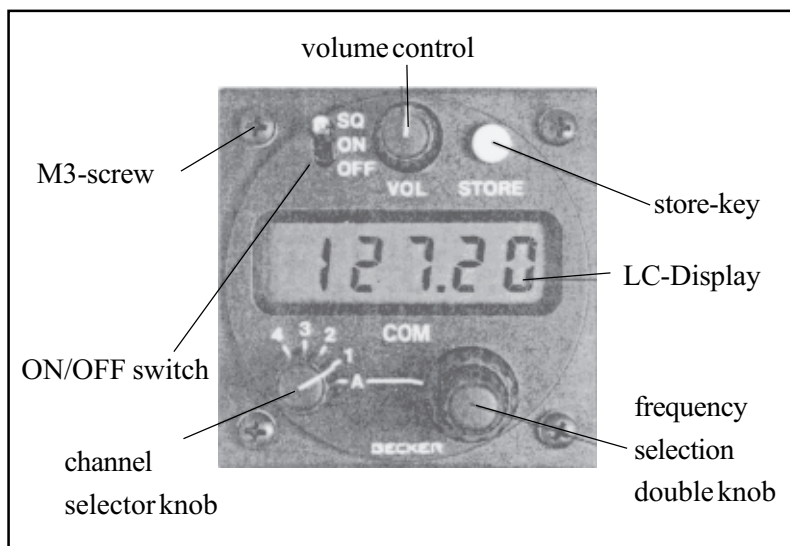
- Turn the channel selector in position "A".
- Select the desired frequency with the double knob
- Switch the channel selector over to the desired channel memory (1,2,3or4)
- Push the store key and hold it until the formerly stored frequency disappears and the newly selected one appears on the LC-display.

### 5 Channel recall

Every stored frequency can be recalled by turning the channel selector knob

### 6 Squelch

Bringing the ON\OFF switch into SQ position switches the squelch on. This suppresses disturbing noises and enhances the comfort of the radio communication.



*Becker AR 3201 Front View  
Figure 1*

## Installation Instruction

The AR 3201 VHF transceiver is installed in the rear instrument panel, rear mounted and secured with 4 M3-screws. For the electrical installation the AR 3201 is interconnected through the wiring harness ref.431.001-950 following the wiring diagram (see section "Wiring Diagram" in the Becker instruction booklet and refer to Chapter 92 "Schematics" in this manual).

### 23-10-02

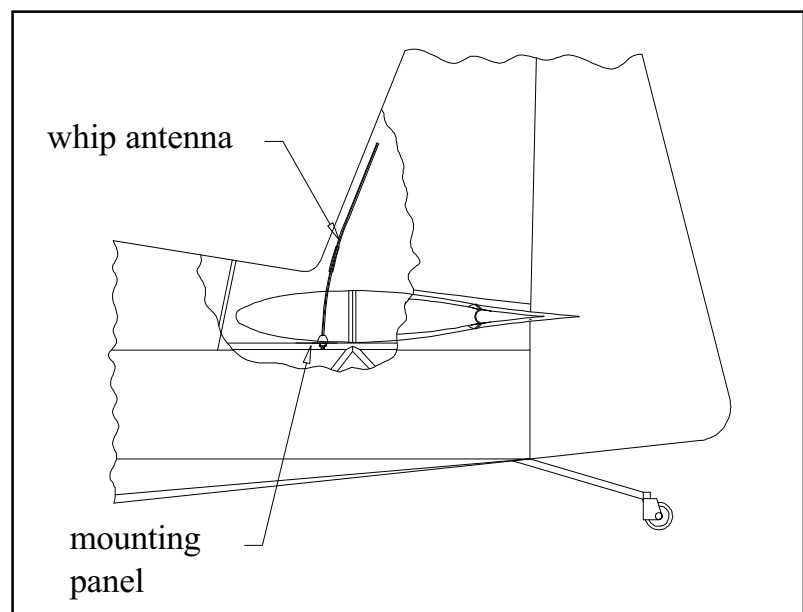
## Circuit Breaker

The AR 3201 VHF transceiver is protected against elect. short circuit by a 5 Amp.circuit breaker on the rear instrument panel.

### 23-10-03

## VHF Whip antenna (Moba 210 FA) BECKER 1A001

The VHF whip antenna is installed in the fuselage and is towered with the whip into the rudder fin (Refer to Figure 2). A "RG 50" coaxial cable connects this whip antenna directly to the AR 3201 VHF transceiver.



*Whip antenna  
Figure 2*

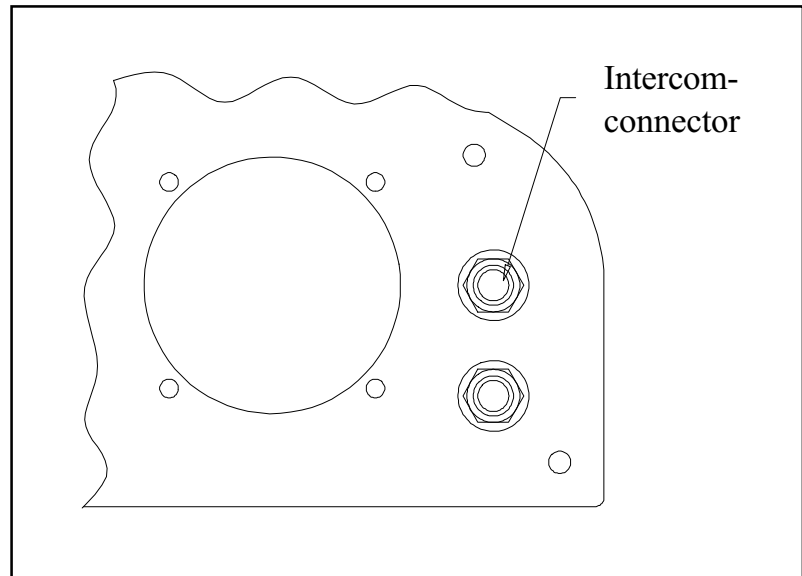
The VHF whip antenna is removed as follows:

- 1 Assure the master switch is OFF
- 2 Remove the turtle deck and the fin fairing (Refer to Chapter 05-00-01)
- 3 Disconnect the antenna to the coaxial cable.
- 4 Remove the nut holding the antenna to the grounding plate
- 5 Pull the antenna carefully out of the rudder fin.

## 23-40-00

# INTERPHONE (INTERCOM)

The interphone (intercom) is useful in an aircraft with high noise level where headseats are used. When the IC-switch (located at the throttle lever) is pressed, the transceiver can simultaneously be operated for radio communication by the PTT key. Additionally, the intercom between both crew members is operational without any further action. This mode is also known as "HOT MIKE", as the crew's microphones are permanently open. The intercom-connector is installed on the right side of both instrument panels in the proximity of the AR 3201 VHF transceiver (Refer to the following Figure 3).



*Intercom-connector*  
*Figure 3*