

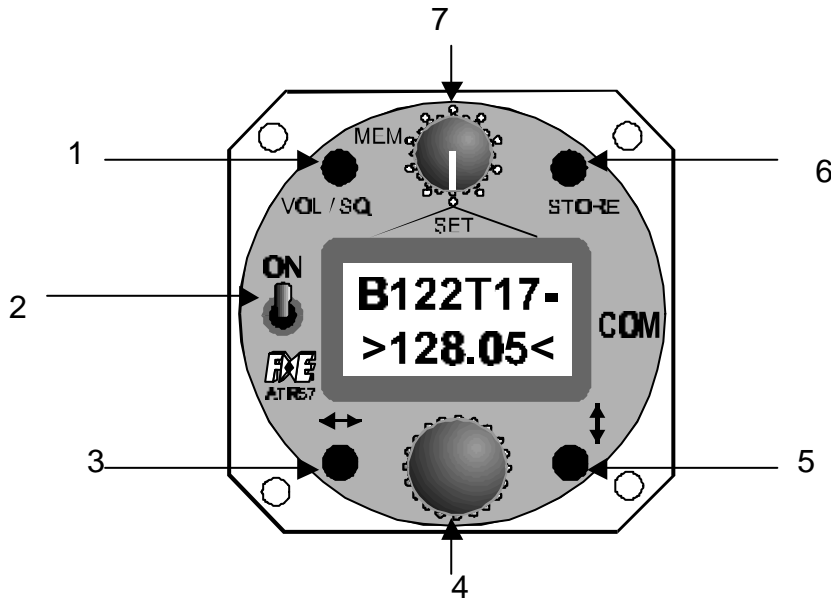
# ATR 57 COM



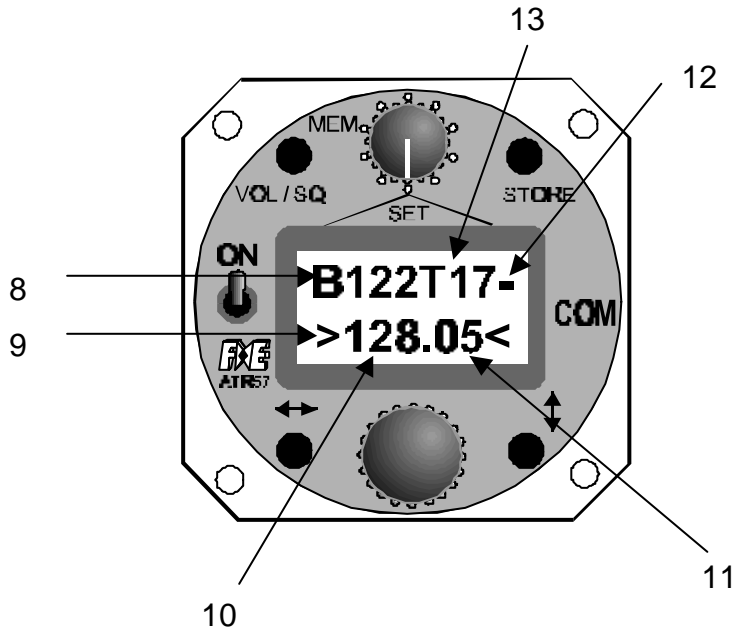
## Installation- and Usermanual

Ver. 1.0, Date: May 00

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1. Volume / Squelch push-button
2. ON / OFF switch
3. MHz / kHz push-button
4. Tuningknob for Volume, Squelch and selected frequency
5. Change selected frequency to active frequency
6. Store-button
7. Select stored frequency



- 8. "B" Low-Battery display, shown when voltage is < 10,5V
- 9. "><" changing MHz or kHz range
- 10. MHz-range
- 11. kHz-range
- 12. "-" shown at lost of transmitting or receiving frequency
- 13. "T" shown during transmitting, "R" shown during receiving

### **3.1 Panel installation**

The ATR 57 is mounted in the panel with the four screws in instrument head. The cut-out diameter for placing the ATR 57 in the panel is standard 57mm.

Tip: Look for a place in the panel which provides easy installing, a good view and reachability for the pilot sitting in normal position.

Avoid mounting near hot places. You do not need any external cooling device like a fan or similar.

You should pay attention having enough space behind the backside of the ATR 57 for connectors and cables. The cable harness should be as short as possible. Avoid that cables run near strong RF noise sources like the ignition coil, generator or battery charger. This can cause a low frequency noise in the speaker.

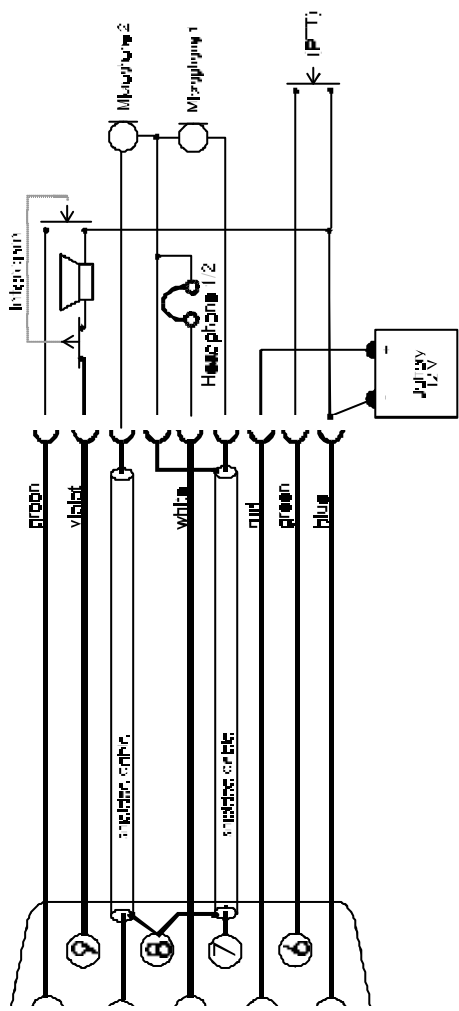
Your service company can provide all needed cables, the connectors are delivered with your ATR 57.

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The ATR 57 works with a normal 50Ω-COM-antenna. Polarisation must be vertical. A whip antenna (aerial) is not necessary. Using a broad band COM-antenna provides a high efficiency over the COM band. You should fix the antenna according to manufacturers advises.

Some important advises are listed below:

- Unsymmetrical antennas (e.g.  $\lambda/4$ -Antenna) should be mounted on plane metal surfaces or metal plates of at least 50 x 50cm.
- The antenna should have the maximal possible distance to motor, propeller and so on. This avoids getting modulation on your signal.
- The COM-antenna should have the maximal possible distance to the NAV-antenna in order to avoid interference.



One will find all elements for operating the radio on the frontplate.

#### **4.1 Turn on**

The „ON-OFF“-switch (2) is mounted on the left side in the middle. The radio is active, when the switchposition is „ON“ (upper position).

#### **4.2 Volume control**

Push the Volume/Squelch push-button once (1) (located on the upper left side) to get into the Volume mode. By turning the tuning knob (4) once you can change the Volume. The unit will leave the Volume mode, if a other frequency is selected. The selected level is active until the ATR 57 is switched off. To use this level as switch on default, push the store button (6) while the device is in the Volume mode. For confirmation the ATR 57 shows „ST“ in its display.

#### **4.3 Squelch level control**

Push twice the Volume/Squelch push-button (1), to get into the Squelch mode, then follow the instructions, listed in chapter 4.2..

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Push three times the Volume/Squelch push-button (1), to get into the Intercom mode, then follow the instructions, listed in chapter 4.2..

The higher the selected value is, the louder you have to talk to open the Intercom path.

The Intercom Volume can be adjusted by a potentiometer. A entry hole with a marker "IC" is located on the side of the COM unit.

**Attention:** This potentiometer can only be adjusted when the ATR 57 is not installed. The adjustment has to be done before installation.

**The potentiometer is placed at an angle of 45° to the side of the radio (see label).**

#### **4.5 Memory selector**

The memory selector (7) is located in the upper middle of the unit. It is used for selecting previous stored frequencies or for saving a frequency on one of the 9 possible places. Between place 9 and 1 (the white line on the memory selector shows downward) you will find the operation mode for selecting a frequency and changing it to active.

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Turn the memory selector in the position between memory place 1 (M1) and 9 (M9) (the white line on the memory selector shows downward). In the first line of the display you can read the actual active frequency, in the second line the changeable frequency is displayed.

To change between the MHz- and kHz-range use button 3 (↔). A small arrow (9) shows the actual range.

You can change the selected frequency by using the big knob (4).

With the button on the lower right side (5) this new frequency can be activated. Now it is displayed on the first line, the old active frequency is deactivated and written in the second line.

Turn the memory selector (7) onto the place, you want the new frequency to be saved and press the store button (6).

#### **4.7 Low-battery**

If the battery voltage falls below 10,5V a „B“ will be shown in upper left corner of the display. Now a regular operation of the device can not longer be guaranteed.

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If the actual used frequency has an intolerable difference to the displayed frequency a "-" (12) will appear in the upper right corner of the display. In this case the ATR 57 is not working properly and must be returned to the manufacturer.

*Notice:*

*Sometimes the "-" may be shown, but it disappears when the frequency is changed or the device is switched off and on. This effect can be due to strong noise from outside the ATR 57. This is no malfunction of the ATR 57*

## **5 Transmitting**

By using the transmitting key (PTT), the ATR 57 will change to the transmit mode on the frequency shown on the upper position of the display. As long as the transmission takes place a "T" will be shown instead of the decimal point between the MHz- and kHz-value of the actual frequency (upper line), to control the proper function of the device. By checking the Sidetone in the headphone you have a further control for a proper transmission.

The Volume of this Sidetone can be adjusted with a potentiometer, which is placed at the side of the radio. It is labelled with "ST".

**Attention:** This potentiometer can only be adjusted when the ATR 57 is not installed. The adjustment has to be done before



