

# TRIMLINE

## TC100 Communications Transceiver

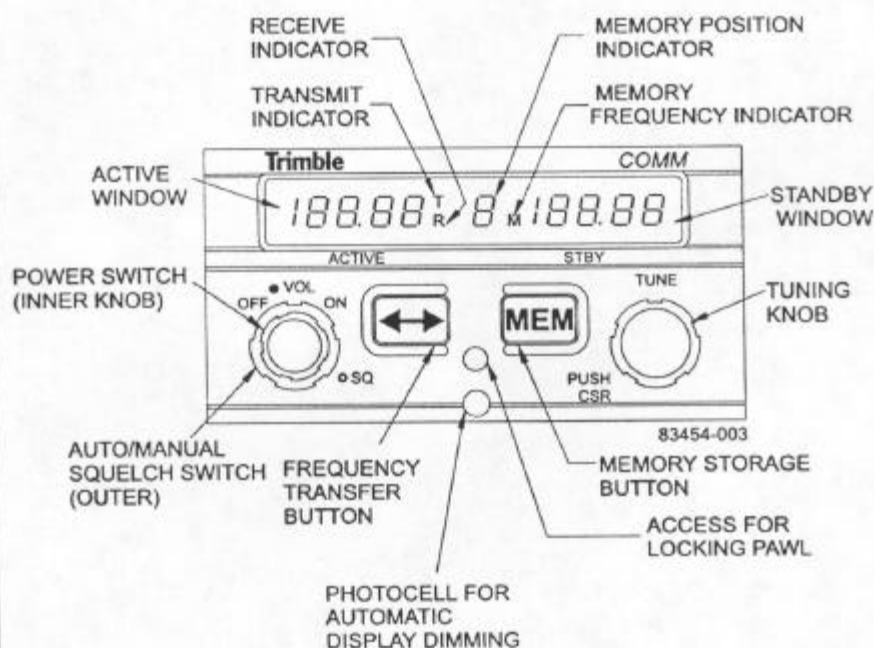
### *Pilot Guide*

### Overview

The TC100 Communications Transceiver provides simplex communication using one of 760 available channels from 118.00 to 136.975 with 25 KHz spacing. The TC100 provides active and standby frequency indication, frequency memory storage, and knob-operated frequency selection.

### Front Panel

The user interface of the TC100 includes a display window, two push-button keys, concentric ON/OFF and SQUELCH knobs, and a frequency tuning knob.



The active frequency is displayed on the left side of the display window and the standby frequency is displayed on the right side. The TC100 displays a "T" to the right of the active frequency during transmit and displays an "R" when the transceiver is receiving. When the TC100 is in memory transfer mode, it displays an "M" to the left of the standby frequency. The memory position number is displayed between the active and standby frequencies.

## Controls



Rotate the power knob, the inner knob on the left, to turn the unit ON or OFF and adjust the volume.



Rotate the squelch knob, the outer knob on the left, to select auto or manual squelch. For auto squelch turn the knob counterclockwise until it clicks.



Rotate the frequency tuning knob located on the right side of the unit to tune new frequencies.



After tuning a new frequency, press the frequency transfer button to make it the active frequency.



Press the memory storage button to store a new frequency to memory or to recall a stored frequency.

## Operation

1. Rotate the power knob clockwise to turn ON the TC100.

The TC100 displays the following for 5 seconds after it is turned on:



83454-002

then displays the last used frequencies.

2. Rotate the squelch knob clockwise until you hear background noise.
3. Adjust the volume by rotating the power knob until the noise reaches the desired level.
4. Rotate the squelch knob counterclockwise until it clicks to set the auto squelch mode.
5. Key your microphone to transmit on the active frequency.
6. Release the key to automatically set the transceiver in receive mode.

### Tune a New Frequency

1. Press the tuning knob to cause the last two digits of the MHz in the standby window to blink.
2. Rotate the tuning knob until the correct digits are displayed.
3. Press the tuning knob to cause the kHz digits in the standby window to blink.
4. Rotate the tuning knob until the correct digits are displayed.
5. Press the tuning knob to cause all digits to stop blinking.
6. Press the  button to transfer the new frequency to the active window.

### Program a New Frequency in Memory

1. Press  to select the desired memory position. The TC100 displays an "M" to the left of the standby frequency.
2. Tune a new frequency in the standby window.
3. Press  to store the new frequency to the selected memory position. The "M" illuminates to confirm storage.

**NOTE:** Memory position 0 is permanently programmed to the emergency frequency, 121.50 MHz. It cannot be changed.

### Recall and Use Frequencies from Memory

1. Press  repeatedly until the desired stored frequency is displayed in the standby window.
2. Press  to transfer the memory stored frequency to the active window.

### Voice Operated Intercom (VOX) – Optional

The TC100 has an intercom option that, if installed, allows hands-free communication between the pilot and copilot. For the best results, follow these guidelines:

1. Use the same type of microphone for pilot and copilot (i.e. 2 dynamic or 2 noise cancelling, but not one of each).
2. Speak loudly and clearly with the microphone on your lips.
3. Use a foam covering on the microphone to eliminate breathing sounds and wind noise.

The VOX intercom squelch level and volume level are preset at the factory, but can be adjusted as necessary. See the *TrimLine TC100 Installation and Checkout Manual* (Publication No. 83453) for information on how to do this.

### **Emergency Operation**

Memory position 0 is permanently programmed to the emergency frequency 121.50 MHz. Press and hold **MEM** to recall memory position 0 then press **↔** to transfer it to the active window

**Modification of this product without the the written authorization of Trimble Navigation (Limited) may void the user's ability to legally operated this equipment.**



Publication Number 83454  
Revision A - June 1, 1998  
Copyright 1998