

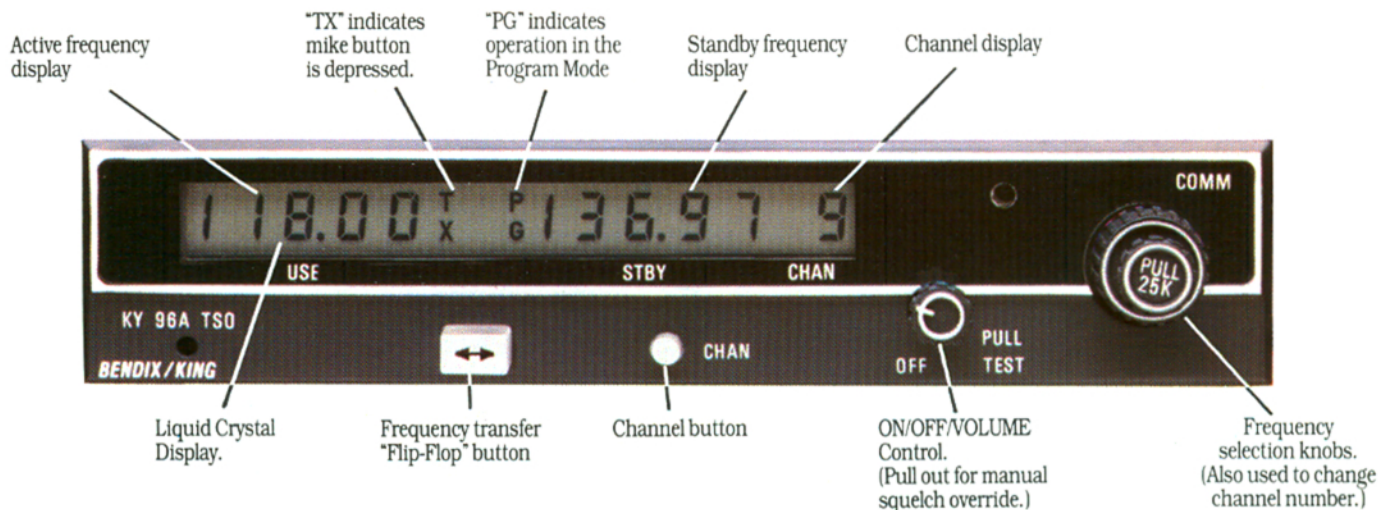
# KY 96A and KY 97A

Bendix/King  
VHF Communications Transceivers





# A hard working COMM for the value-conscious pilot.



A low-cost COMM has a different appeal to different pilots. Equipping the panel in a new aircraft, replacing the radio in an older aircraft and adding a back-up COMM to an IFR package are all valid reasons for purchasing a new COMM, but not necessarily good reasons to spend a lot of money on the radio.

Fortunately, Bendix/King offers the KY 96A and KY 97A COMM Transceivers. Very affordable TSO'd radios with the reliability and features you'd expect from Silver Crown avionics.

## FEATURES

The KY 96A and KY 97A are identical in all respects but one: the KY 96A operates at 28 volts while the KY 97A operates at 14 volts.

### 760 COMM Frequencies

With the anticipation of additional frequency allocations, Bendix/King has designed the KY 96A and KY 97A to operate on 760 frequencies from 118.00 MHz to 136.975 MHz. The KY 96A and KY 97A won't become obsolete overnight.

### "Flip-Flop" Frequency Switching

With the ease and speed of the push of a button you can switch between active and standby frequencies. Simply tune the desired frequency into the standby window ("STBY") while monitoring the "USE"

channel—when the time is right, simply push the frequency transfer button to transfer the standby frequency into the active window. A remote switch may be installed as an additional means of providing the "flip-flop" function.

### Nine Memory Channels

Up to nine channels can be easily programmed by the pilot into the memory of the KY 96A or KY 97A. This is in addition to the two displayed frequencies for a total storage capacity of eleven frequencies.

### Non-Volatile Frequency Storage

The KY 96A and KY 97A remember displayed frequencies and stored frequencies without batteries or external battery hookup during power shutdown or in the event of a power interruption.

### LCD Display

The KY 96A and KY 97A utilize an easy-to-read, illuminated LCD display. The display, as well as the lighted push buttons, are connected to the aircraft panel lighting bus and brighten or dim to provide maximum clarity in either darkened or daylight conditions.

### Audio Leveling

The KY 96A and KY 97A offer operators a consistent audio level—automatically amplifying weak audio signals and muting those which are too strong.

### Built-in Amplifier

The KY 96A and KY 97A are equipped with an audio amplifier to drive a speaker for installations not utilizing an audio panel.

### Stuck Microphone Indication

A flashing display will alert the pilot to a microphone that becomes stuck for two minutes. To keep from jamming the frequency, the KY 96A and KY 97A will also automatically disable their transmitters.

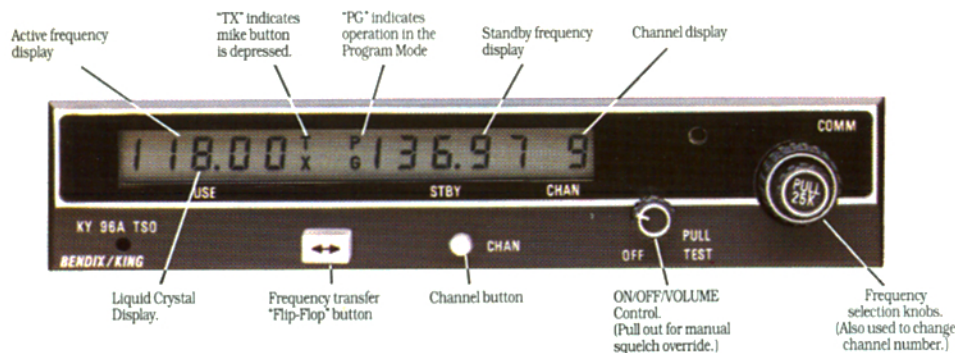
### Direct Tuning Capabilities

Frequencies can be changed directly into the "USE" window, bypassing the darkened "STBY" window.

As with all Bendix/King products, the KY 96A and KY 97A come with a product support program that's second to none. You not only get the latest in technology, but worldwide support after the sale as well.



# KY 96A and KY 97A Operation.



## POWER UP

When you turn the ON/OFF/VOLUME knob clockwise to the "on" position, your KY 96A or KY 97A will display the last used frequencies in the "USE" and "STBY" (Standby) windows.

To override the automatic squelch, pull the ON/OFF/VOLUME knob out and rotate it for the desired listening level on the noise being produced by the receiver. Push the volume knob back in to activate the automatic squelch.

**Note:** As with all avionics, the KY 96A and KY 97A should be turned on only after engine start-up. This is a simple precaution which will help protect the solid-state circuitry and extend the operating life of your avionics equipment.

## Transmitting

During COMM transmissions, a "TX" appears to indicate the keying of the microphone.



## The Frequency Mode (normal operation)

1. Select a new frequency in the "STBY" window using the frequency selection knobs. The larger knob offers changes of 1MHz. The smaller knob provides changes of 50kHz when pushed in and 25kHz when pulled out.

At the outside limits of the band the display will wrap around to the other end of the band—going from 136MHz to 118MHz.



2. Press the transfer button to activate the new frequency. The newly entered frequency in the "STBY" window flip-flops with the frequency in the "USE" window. This new frequency tunes the radio for operation. An optional remote-mounted frequency transfer button may also be used to perform this "flip-flop" function.



## Program Mode

The Program mode is used to set memory locations for use in the channel mode. 1. Depress the Channel (CHAN) button for longer than two seconds, until "PG" is annunciated on the display. The last used active frequency will remain tuned in the "USE" window and the last used channel number will flash.



2. Turning either frequency selection knob changes the channel number.



3. Once you've selected the desired channel number, pressing the transfer button will cause the frequency corresponding to that channel number to flash. You may then select the frequency for the displayed channel number simply by turning the frequency selection knobs.



4. To program additional channels, push the transfer button again to make the channel number flash and repeat step three above.

5. If you wish to program less than 9 channels and have certain channel numbers skipped over when operating in the Channel mode, proceed as follows: Rotate the MHz frequency knob left or right beyond 136 or 118 MHz. Dashes "---" will appear in the "STBY" window. This indicates that the affected channel number will be skipped when operating in the Channel mode.



6. To exit the Program mode, momentarily press the Channel (CHAN) button. The unit will also automatically exit the Program mode if approximately 20 seconds elapse with no programming.

## The Program Secure Mode

The Program Secure mode may be used to lock a desired frequency to a channel number, prohibiting program changes by the pilot from the front of the unit. Your KY 96A or KY 97A should be taken to your Bendix/King dealer for programming of the Program Secure mode.

## Channel Mode

The Channel Mode is used to recall preset channels stored in memory. 1. Push the Channel (CHAN) button while in the Frequency mode to enter the Channel mode. The last active frequency remains displayed in the "USE" window.



The last used channel number is displayed in the channel window. If no channels have been programmed, channel 1 automatically appears and dashes are displayed in the "STBY" window.

2. Turn either tuning knob to change the channel number and the channel's corresponding frequency in the "STBY" window.



3. If there is no activity for five seconds the radio will return to the Frequency mode with the channel frequency remaining in the "STBY" window.

4. You can also return to the Frequency mode by pressing the transfer button while in the Channel mode. The channel frequency will become the "USE" frequency and the last "USE" frequency will become the "STBY" frequency.

**Note:** If the optional remote channel increment switch is installed, each activation of the switch will put the unit in the Channel mode and cause the next higher channel number and its corresponding frequency to be displayed.



# Pilot's Guide

## KY 96A and KY 97A

Bendix/King  
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This operations guide may be detached from the brochure and retained in the aircraft for easy access to operational information on the KY 96A and KY 97A COMM transceivers.

### Active Entry Mode

The Active Entry mode is entered by pressing and holding the Transfer button for more than two seconds. The frequency in the "STBY" window will blank and the frequency displayed in the "active" window may then be changed with the frequency control knobs. The receiver will be tuned to the frequency displayed in the "active" window at all times.



Momentarily pressing the Transfer button will return the control unit to the

Standby Entry mode. The "STBY" frequency displayed prior to entering the Active Entry mode remains unchanged.

### Default Mode

Turning the units on while holding the Transfer button down will bring the unit on in Active Entry and load 120.00 MHz as the active frequency. This will aid the pilot in blind tuning the radio in the case of display failure.



## Specifications

### TSO compliance:

Transmitter: TSO C37c, Class 4

### Receiver:

TSO C38c, Class C & D (-60 Flavors)  
TSO C38c, Class A & B (-61 Flavors)

### Dimensions:

Height: 1.3 inches (3.3 cm)  
Width: 6.25 inches (15.88 cm)  
Depth: 10.50 inches (26.67 cm)

### Weight:

2.9 lbs (1.32 Kg)

### Temperature Range:

-20°C to +55°C with short time operation at +70°C.

### Frequency Range:

118.0 to 136.975MHz in 25KHZ increments.

### Power Output:

5 Watts minimum

### Modulation:

70% modulation with 98% limiting.  
Less than 15% distortion at 70% modulation.

### Duty Cycle:

1 minute on, 4 minutes off.

### Receiver Sensitivity:

2uV (hard) or less for 6dB S + N/N with 1KHz tone modulated 30%.

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