



SUPPLEMENT

TRANSCEIVER

BENDIX/KING KY 97 A

Registration mark:

Serial number:

This Supplement must be contained in the Aircraft Operating Instructions if communication system BENDIX/KING KY 97 A is installed on the airplane in accordance with the approved airplane manufacturer documentation.

Information contained in this Supplement add or replace information from the basic Aircraft Operating Instructions in the further mentioned parts only. Limitations, procedures and information not mentioned in this Supplement are contained in the basic Aircraft Operating Instructions.

Section 9

Communication
Transceiver KY 97A

SPORTSTAR

AIRCRAFT OPERATING INSTRUCTIONS



Doc. No. S2006AOIUSS01

RECORD OF REVISIONS

Rev. No.	Affected Pages	Description/Validity	Approved /Date	Incorporated by/ Date



COMMUNICATION SYSTEM BENDIX / KING KY-97 A

SECTION 1 – GENERAL

This Supplement adds information necessary for airplane operation with navigation and communication system *BENDIX/KING KY 97 A* installed on the airplane SPORTSTAR.

SECTION 2 – LIMITATIONS

During engine starting the navigation and communication system KY 97 A must be switched off.

SECTION 3 – EMERGENCY PROCEDURES NOT AFFECTED

SECTION 4 – NORMAL PROCEDURES

OPERATION OF COMMUNICATION RADIOSTATION (COMM)

POWER UP

1. **ON/OFF/VOLUME** knob turn clockwise to the ON position

The transceiver will display the last used frequencies in the USE and STBY windows.

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

FREQUENCY MODE

1. **PULL 25K** frequency selection knobs SET the required frequency
(in the standby window STBY)
2. Transfer button PRESS

Frequency is transferred from the standby to the active window.

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3. Button on the control stick

- at transmitting PRESS
- at receiving RELEASE

“TX” lights up at receiving next to the active frequency.

If transmitting takes longer than 35 s, transmitting mode is changed automatically to receiving and the active COMM frequency starts flashing.

PROGRAM MODE

The program mode is used to set memory locations for use in the channel mode.

1. CHAN button PRESS and HOLD longer than 2 sec.

PG annunciator appears in the display. The last used active frequency will remain tuned in the USE window and the last used channel will flash.

2. Turn eighter frequency selection knob changes the channel number.

After selecting the desired channel number:

3. Transfer button PRESS

The channel number will fash.

4. **PULL 25K** frequency selection knobs SET the required frequency

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

CHANNEL MODE

The channel mode is used to recall preset channel stored in memory.

In frequency mode:

1. **CHAN** button PRESS

The last active frequency remains displayed in the USE window. The last used channel number is displaed in the channel window.

2. **PULL 25K** frequency selection knobs TURN to change the channel number and the channel's corresponidng frequency in the STBY window

If there is no activity for 5 seconds the unit will return to the frequency mode with the channel frequency remaining in the STBY window.

If you press the transfer button, while the unit is in the channel mode, the channel frequency will become the USE frequency and the last USE frequency will become the STBY frequency.



COMM DIRECT TUNING MODE

1. Transfer button PRESS and HOLD longer than 2 sec.
2. **PULL 25K** frequency selection knobs SET the required frequency
3. Directly set the required frequency in the active window, the STBY window is not indicated.
4. Transfer button PRESS

The unit returns to the frequency mode.

DEFAULT MODE

1. Transfer button PRESS and simultaneously switch on the unit

In this way it is possible to set frequency of 120.00 MHz automatically at random in case of frequency indication failure on the display.

2. **PULL 25K** frequency selection button SET the required frequency

By turning the **outer knob** of frequency selection clockwise (CW), frequency of 120.00 MHz is increased by **1 MHz**, by turning it counter-clockwise (CCW), this frequency is decreased by 1 MHz, by every turning the **inner knob** of frequency selection CW, the frequency is increased by **50 kHz**, by turning CCW, the frequency is decreased by 50 kHz, **by pulling the inner knob** of frequency selection and by turning it CW, the frequency is increased by **25 kHz**, by turning it CCW, the frequency is decreased by 25 kHz

SETTING VOLUME OF LISTENING-IN

1. **PULL IDENT** knob PULL, set volume by turning

SECTION 5 – PERFORMANCE – NOT AFFECTED

SECTION 6 – WEIGHT AND BALANCE – NOT AFFECTED



SECTION 7 – AIRPLANE AND SYSTEM DESCRIPTION

Communication transceiver BENDIX/KING KY 97 A contains 760–channel communication VHF radiostation. Communication transceiver (COMM) works in frequency range of 118.000 up to 136.975 MHz with 25 kHz interval.

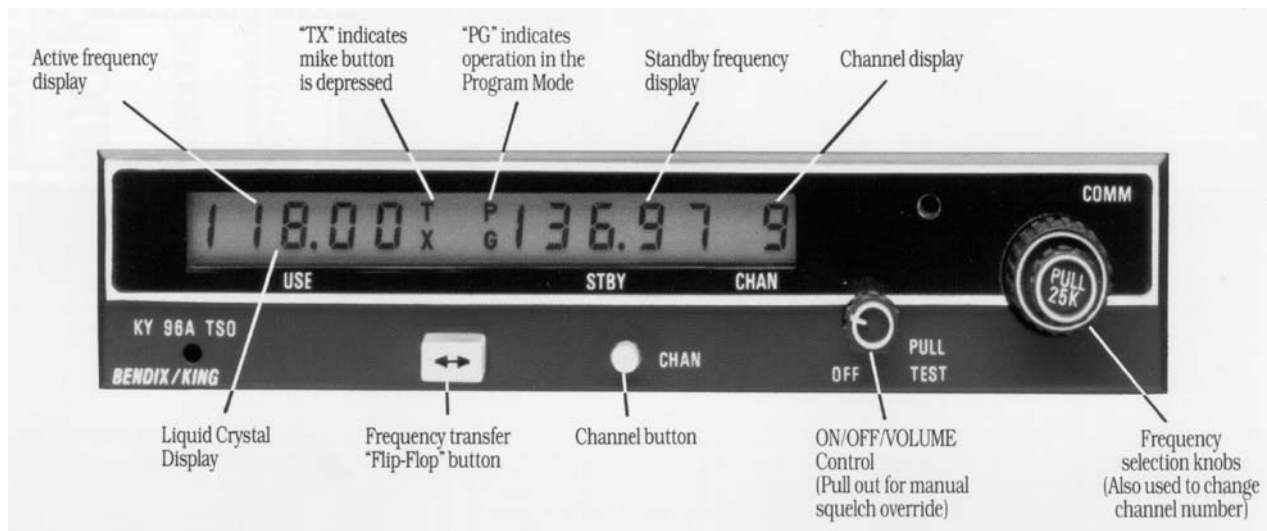


Figure 1 Front panel KY 97A

Communication transceiver has four operation modes: frequency mode, direct tuning mode, program mode and default mode. In the frequency mode it is possible to tune the standby frequency and to replace it by the active one. In the mode of direct tuning it is possible to set the active frequency directly. The program mode enables to store or recall frequency in/from the memory. The default mode enables to set frequency at random in case of a display failure.

Communication radiostation is equipped with automatic squelch that is active in pressed down position of the controller **OFF/PULL TEST**. When the controller is pulled, the automatic squelch is suppressed.

Frequency is set by two concentric knobs on the right side of the unit. By turning the bigger knob, the frequency is set left from decimal point (MHz), by turning the smaller knob, the frequency is set right from decimal point (kHz). If the smaller knob is pressed, the frequency is change by 50 kHz step, if pulled, the frequency is changed by 25 KHz step. By turning knobs clockwise, the frequency is increased, by turning counter–clockwise the frequency is decreased.



By pressing the transfer button for 2 sec., the frequency indication display goes over to the so called direct tuning mode. Only the active frequency is indicated which can be directly tuned by both of the concentric knobs. Display will return to the active mode/stand-by frequency mode by pressing the transfer button again.

**SECTION 8 – AIRPLANE HANDLING, SERVICING
AND MAINTENANCE
NOT AFFECTED**

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