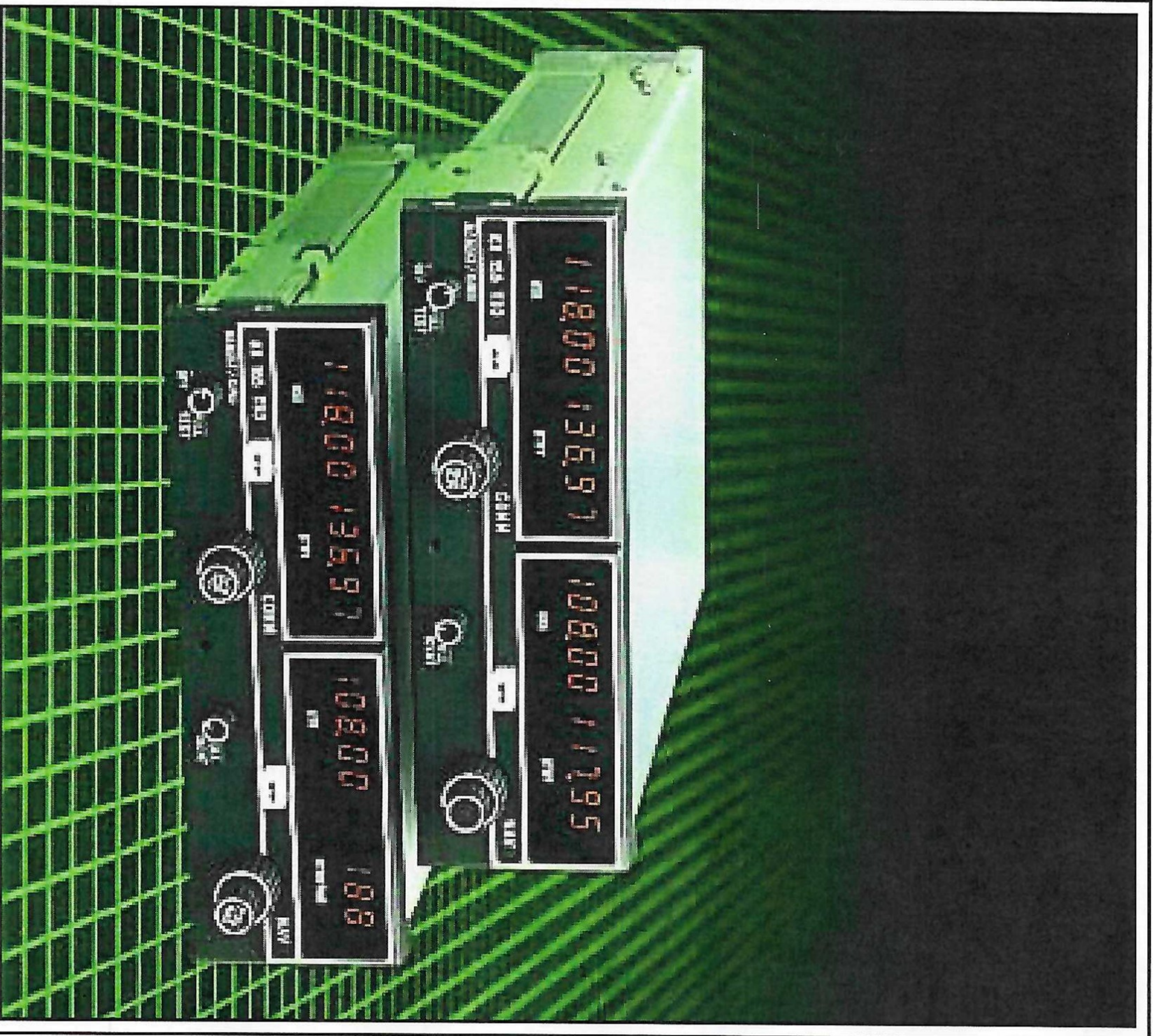
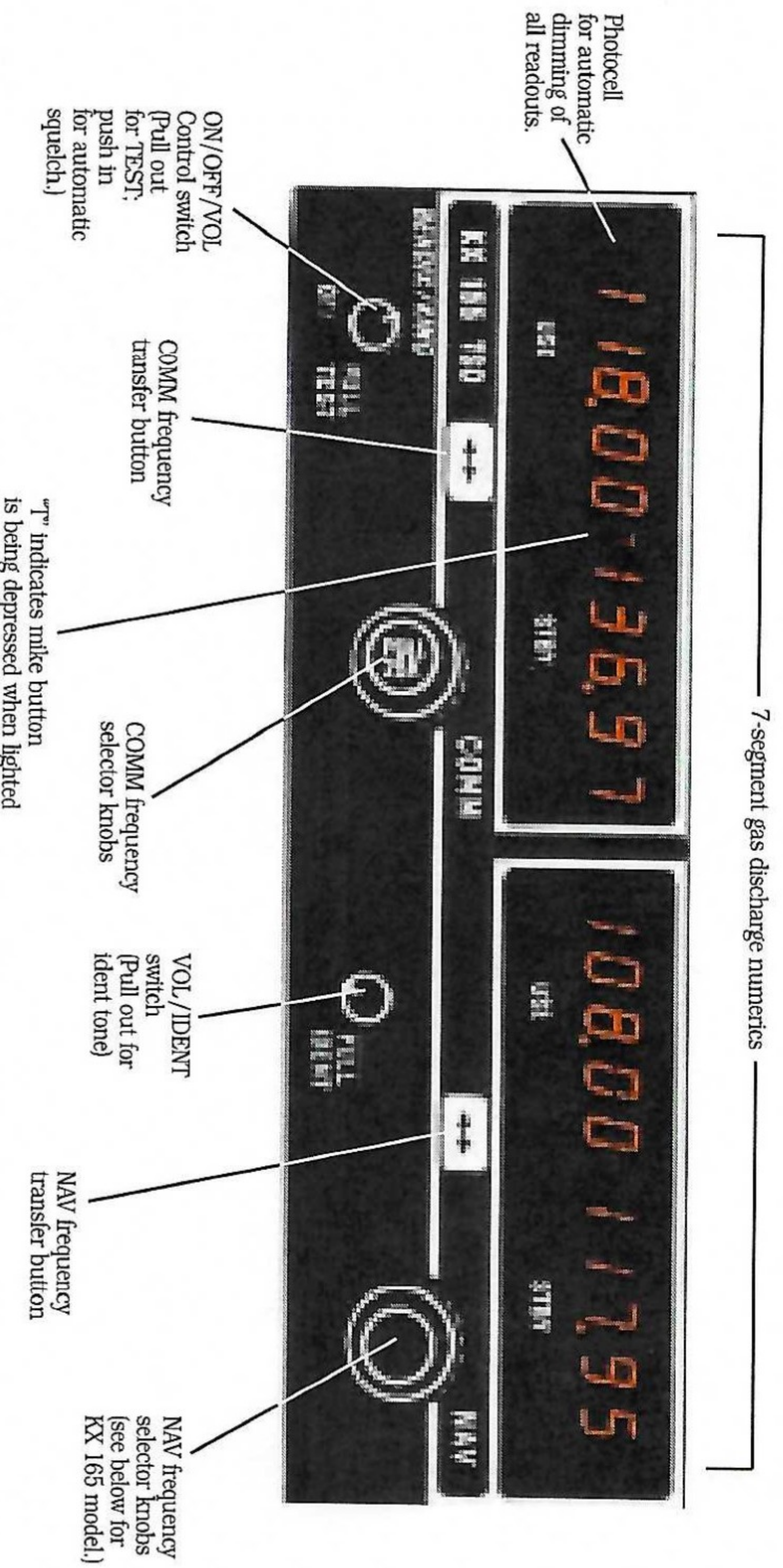


PILLOT'S GUIDE KX 155 and KX 165

Bendix/King TSO'D NAV/COMM Systems



How to operate the KX 155 and KX 165 VHF NAV/COMM:



TURN ON: Rotate the ON/OFF/Volume Control knob clockwise from the detented “OFF” position. Power will be activated and the unit will be ready to operate. No warm up time is required.

A non-volatile memory stores the “active” (USE) and “standby” (STBY) frequencies during power shutdown. So, when turned on, the “USE” and “STBY” windows will display the same frequencies that were selected before shutdown.

The KX 165’s digital “Radial” readout will only function when receiving a valid VOR signal.

NOTE: As with all avionics, the KX 155 and KX 165 should be turned on only after engine start-up. In addition, the KX 155 and KX 165 should be turned off prior to engine shutdown. These simple precautions will help protect the solid-state circuitry and extend the operating life of your avionics equipment.

TO COMMUNICATE:

Frequency Selection: By rotating the concentric COMM frequency selector knobs either clockwise or counterclockwise, the desired operating frequency can be entered in the the “STBY” display window. A clockwise rotation of the knobs will increase the displayed frequency number, while a counterclockwise rotation will decrease it. The outer, larger selector knob is used to change the MHz portion of the frequency display; the smaller knob changes the kHz portion. This smaller knob is designed to change the indicated frequency in steps of 50 kHz when it is pushed in, and in 25 kHz steps when it is pulled out. At either band-edge of the 118.00—136.975 MHz frequency spectrum, an off-scale rotation will wrap the display around to the other frequency band-edge (i.e., 136.00 MHz advances to 118.00 MHz).

COMM Channeling: To tune the COMM transceiver to the desired operating frequency, the selected frequency must first be entered into the “STBY” display window and then activated by pushing the “flip-flop” transfer button. This will interchange the frequencies in the “USE” and “STBY” displays, and the transceiver will be tuned to the operating frequency appearing in the “USE” display.

As you can see, this feature makes it possible to display two COMM frequencies—one each in the “USE” and “STBY” displays—and then switch back and forth between them just by pressing the transfer button. An additional transfer button may also be remote-mounted in the aircraft.

Transmit Indicator: Whenever the microphone is keyed, a lighted “T” will appear between the “USE” and “STBY” displays to indicate that the transceiver is operating in the transmit mode.

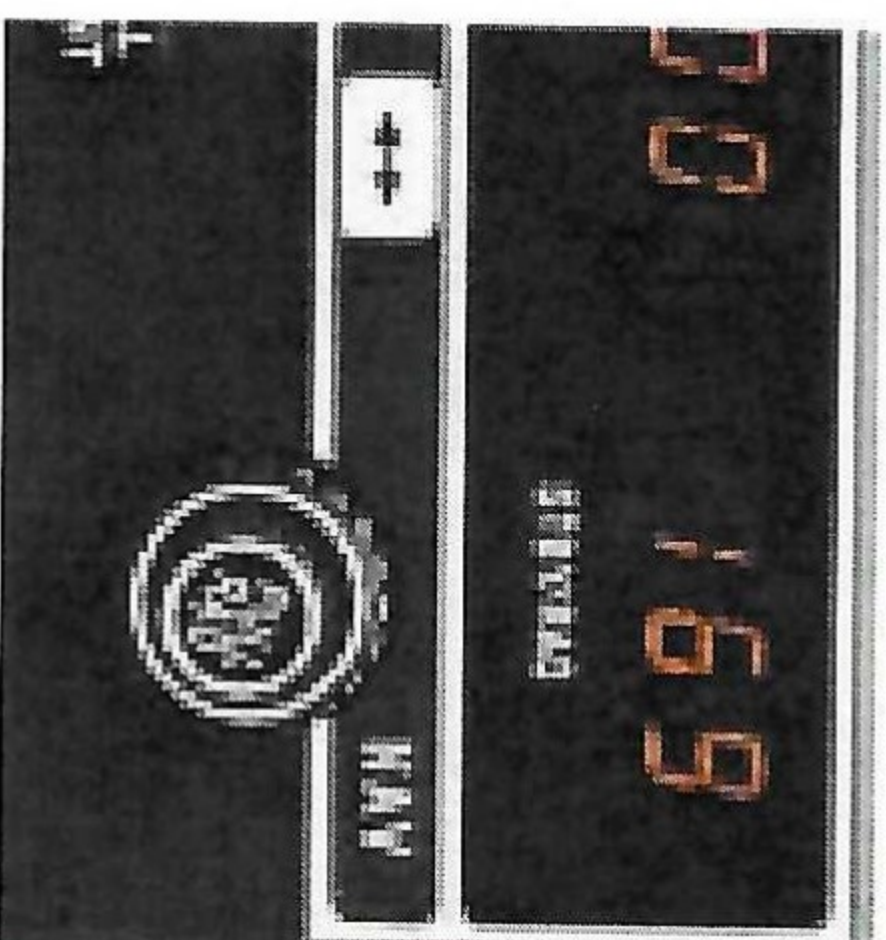
Volume Adjustment Test: To override the automatic squelch for audio test, or to aid in receiving a distant station, simply pull the volume control knob out and rotate to the desired listening level. Push the knob back in to activate the automatic squelch.

TO NAVIGATE:

NAV Frequency Selection: By rotating the concentric NAV frequency selector knobs either clockwise or counterclockwise, the desired operating frequency can be entered into the “STBY” display window. A clockwise rotation will increase the displayed frequency number, while a counterclockwise rotation will decrease it. As with the COMM frequency selectors, an off-scale rotation of the NAV frequency band-edge (108.00 to 117.95) will wrap the display around to the other edge of the frequency band (i.e., 117.00 advances to 108.00 with MHz knob rotation.). Remote DME and internal glide slope channeling are also controlled by these selector knobs.

NAV Frequency Operation: To tune the NAV receiver to the desired operating frequency, the selected frequency is first entered into the “STBY” display and then “flip-flopped” into “ACTIVE” status by pushing the transfer button. When the inner knob is pulled out, the active NAV frequency is tuned directly.

VOR “Radial” Mode: When the smaller NAV kHz frequency selector knob is pulled out on the KX 165 model, the VOR Radial FROM the station in “USE” is digitally displayed in the “STBY/RAD” window. The “STBY” frequency will go into non-displayed storage from which it can be “flip-flopped” into “USE” at a press of the transfer button. While in the “RADIAL” mode, rotation of the frequency selector knobs will channel the active frequency directly in the “USE” window display. If the VOR signal is too weak to provide a Radial readout, a “warning flag” is activated consisting of three dashes “- - -” displayed in the “STBY/RAD” window. Also, when an ILS frequency has been selected, the digital flag “- - -” will appear in the “STBY/RAD” window. This digital “RADIAL” mode is not provided on the lower-cost KX 155 model; therefore, with the inner NAV Frequency select knob pulled out, three dashes “- - -” will always appear in the right NAV window.



IDENT: The NAV “IDENT” knob is activated by pulling it outward, so that both voice and ident can be heard. When this knob is pushed in, the ident tone is muted. Volume of voice/ident can be adjusted by turning this knob—clockwise to increase, counterclockwise to decrease.

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