KX 155 and KX 165 Bendix/King TSO'D NAV/COMM Systems



Innovative "flip-flop" digital displays bring you push button frequency preselection for both NAV and COMM.

It always pays to plan ahead. And with the Bendix/King KX 155 and KX 165 NAV/COMMs, "stay ahead" frequency pre-planning is push button simple.

Both NAV and COMM frequency displays on these units incorporate the popular "flip-flop" preselect feature. So, you can set up en route or approach frequency changeovers well in advance of your actual transition point or ATC handoff sequence for true "stay ahead" flight management.

Just select your upcoming NAV or COMM frequency in the "standby" (STBY) display, and you're all set to "flip-flop" it into "active" status at the press of a button. This function may also be controlled from an optional remote mounted switch.

Both "active" and "standby" frequencies are displayed simultaneously, so you never have to worry about what's being stored. And there's no chance of inadvertently erasing a frequency just when you need it most.

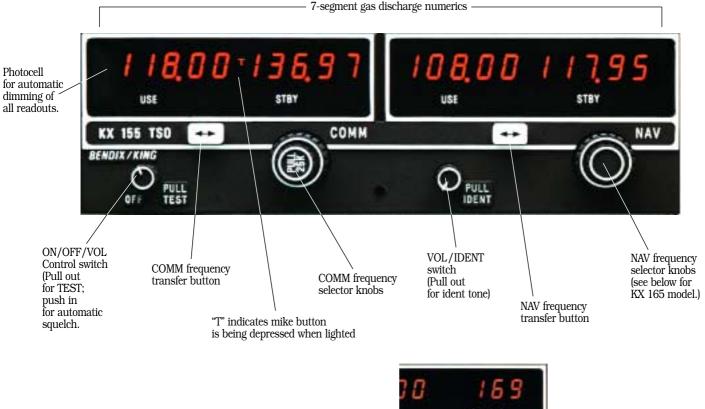
An innovative non-volative memory circuit holds all the displayed frequencies in storage—through aircraft shutdowns or momentary power interruptions—without the need for battery power of any kind.

Large, self-dimming, microprocessor-controlled gas discharge readouts and solid-state electronic tuning provide fast, accurate selection of all 200 NAV and 760 COMM frequencies and both the KX 155 and KX 165 feature a built-in 40-channel glideslope receiver. (As an option, they're also available without the glideslope.)

On the COMM side, both the KX 155 and KX 165 systems give you

10 watts minimum transmitter power for maximum range and clarity.

And on the NAV side, the KX 165's useful "Radial" feature offers vou an instant readout of the radial you're on (from the "active" VORTAC station), digitally displayed in the "standby" NAV frequency window. This Radial readout doesn't interfere with either your "active" or "standby" NAV frequencies. (However, the NAV "standby" frequency does go into nondisplayed storage, and the "active" frequency then becomes linked for direct tuning through the frequency selector knobs.) Thus, with both "active" and "standby" frequencies continuously available, it's easy to perform a quick crossfix check by simply pressing the "flip-flop" button and noting the displayed radial from each of the two selected VORTACs.



On the KX 165 model, a digital readout of the radial you're on (from the "active" VOR station) is displayed in the "standby" NAV frequency window whenever the smaller NAV frequency selector knob is pulled out.



The lower-cost KX 155 system is virtually identical in appearance to the KX 165; however, it doesn't include the digital Radial readout feature. Also, the KX 155 requires an external VOR/LOC converter (usually included n the appropriate Bendix/King NAV indicator) while the KX 165 comes with a built-in VOR/LOC converter designed to interface directly with any ARINC standard CDI or HSI display.

Each of these NAV/COMM units weighs less than 6 lbs. and stands just over 2 inches high in your Silver Crown stack— making them the smallest, most space-efficient TSO'd NAV/COMM packages you can buy anywhere. Both are available in either 14 or 28 volt DC configurations for easy installation in any aircraft.







KI 202/KI 203 VOR/LOC Indicators. The KI 202 is compatible with the KX 165 without glideslope or other NAV systems which contain their own VOR/LOC converters. The KI 203 is compatible with the KX 155 or other NAV systems which do not contain their own VOR/LOC converter. Both indicators feature rectilinear needle action for left/ right course deviation, antireflective coated lens, and internal blue-white lighting.

KI 204 and KI 206 VOR/LOC/ Glideslope Indicators. The KI 204 indicator interfaces with the KX 155 with glideslope or other NAV/GS systems which do not contain thier own VOR/LOC converters. The KI 204 provides rectilinear display of VOR/LOC and glideslope deviation, internal blue-white lighting, and an anti-reflective coated glass lens. The KI 206 is identical in appearance to the KI 204 and interfaces with the KX 165 (including GS) or other NAV systems which contain VOR/LOC converters.

KI 208 VOR/LOC Indicator. Has a self-contained VOR/LOC converter for use with the KX 155. Left/right course deviation is dis-



TSO'D NAV Indicators for use with the KX 155 and KX 165:



played. Has pivoted needle action and plastic lens. Internal bluewhite lighting.

The KI 208A VOR/LOC/GS/GPS Indicator, similar to the KI 208, also adds an interface to the KLN 89/89B GPS receivers.

KI 209 VOR/LOC Glideslope Indicator. Has built-in VOR/LOC converter for use with the KX 155 with glideslope receiver. Features pivoted needle action and plastic lens. Independent GS flag. Internal blue-white lighting.

The KI 209A VOR/LOC/GS/GPS Indicator, similar to the KI 209, also adds an interface to the KLN 89/89B GPS receivers.

KI 525A Horizontal Situation Indicator. As the panel display for the KCS 55A Slaved Gyrocompass System, this indicator combines heading and VOR/LOC deviation information in a single pictorial presentation of the complete navigation situation. It is compatible with the KX 165 (with GS) or other NAV systems with builtin VOR/LOC converters. This instrument also provides glideslope deviation display plus course and heading outputs for Autopilots and Flight Directors.

See how the KX 155 and KX 165 can help build more capability into your new Silver Crown panel.



A complete package for the sophisticated panel. The KX 165 is both the number one and number two NAV/COMM in this configuration. Long-range navigation is provided by the KLN 90B GPS, and Mode S transponder capability is offered by the KT 70. Full IFR performance and a KFC 150 Flight Director/Autopilot make this the most complete avionics package available from one manufacturer.



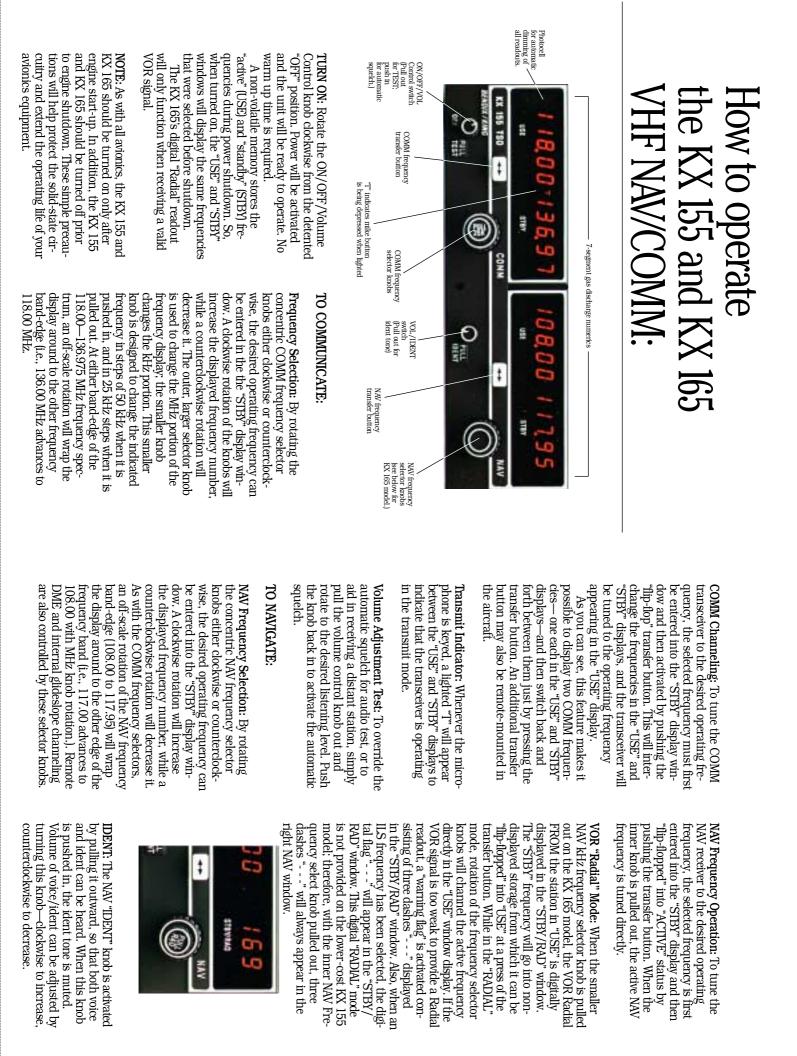


Performance to match your panel and price range. This package features dual KX 155s as the numbers one and two NAV/COMM, with DME channeling for the KN 62A DME receiver. GPS information comes from the KLN 89B GPS receiver, and our KT 76C serves as the transponder. The affordable KAP 150 integrated autopilot combines performance and functionality.



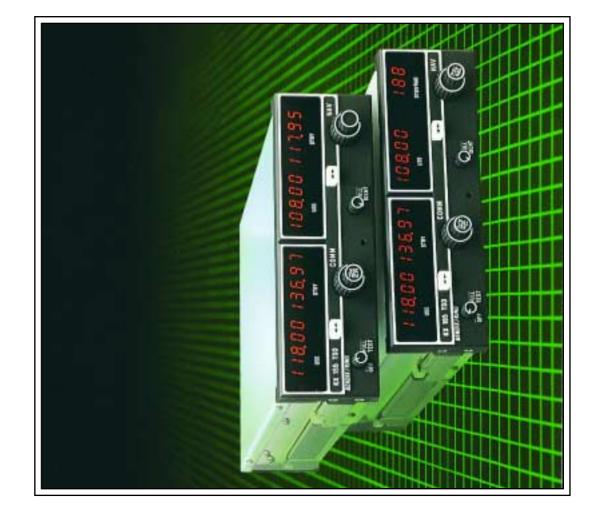
Here's a money-saving Silver Crown system with full IFR capabilities.

In this system, dual KX 155 NAV/COMMs are teamed with the KR 87 and KT 76A transponder to provide a basic IFR package in a minimum of panel space. Add the KN 64 panel-mounted DME at a surprisingly low cost.



PILOT'S GUIDE KX 155 and KX 165

Bendix/King TSO'D NAV/COMM Systems



BENDIX/KING

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Specifications

TECHNICAL CHARACTERISTICS:

TSO COMPLIANCE: COMM Transmit: C37b (DO-157, Class 4) COMM Receiver: C38b (DO-156, Class C and D) C38b (DO-156, Class A) 50 kHz Selectivity NAV Receiver: C40a (DO-153, Cat A and B) C36c (DO-131, Class D)

ENVIRONMENTAL CATEGORIES: DO-160 A1D1/A/KPS/XXXXXZBAAA

PHYSICAL DIMENSIONS: Width: 6.25 inches (15.88 cm) Height: 2.05 inches (5.21 cm) Depth: 10.16 inches (25.81 cm) including connector

WEIGHT:

KX 165 with GS-5.65 lbs. (2.56 kg) KX 165 without GS - 5.10 lbs. (2.31 kg) KX 155 with GS-5.30 lbs. (2.40 kg) KX 155 without GS - 4.75 lbs.

- (2.15 kg) KX 155 with Audio Amp. without
- GS 4.95 lbs. (2.24 kg) KX 155 with GS and Audio Amp.

5.5 lbs. (2.49 kg)

- POWER REQUIREMENTS: KX 165 (27.5VDC) Receive – .4 A. Transmit – 6.0 A
 - KX 165 (13.75VDC) Receive .7 A. Transmit – 8.5 A
 - KX 155 (27.5VDC) Receive .4 A. Transmit – 6.0 A

KX 155 (13.75VDC) Receive – .7 A. Transmit – 8.5 A

COMMUNICATION SECTION

FREQUENCY RANGE: 118.000 MHz to 136.975 MHz in 25 kHz increments

FREQUENCY STABILITY: ±0.0015%

COMM TRANSMITTER POWER OUTPUT:

KX 115/165 – 10 watts minimum SIDETONE OUTPUT:

Adjustable up to 100mW into 500 ohms headphones.

MICROPHONE:

Standard carbon or dynamic mike containing transistorized pre-amp. (Must provide 100mV RMS into 100 ohm load.)

COMM RECEIVER

RECEIVER SENSITIVITY: 2μV (hard) or less (typically 1μV) for 6dB (S + N)/N with 1,000 Hz tone modulated 30%

RECEIVER SELECTIVITY KX 155/165 25 kHz SEL: 6dB bandwidth ± 8.1 kHz 60dB bandwidth ± 20.0 kHz KX 155/165 50 kHz SEL: 6dB bandwidth ± 14.5 kHz 60dB bandwidth ± 43 kHz

RECEIVER AUDIO OUTPUT:

100mW into 500 ohms minimum Audio leveling circuit attacks at less than 15% modulation.

SQUELCH:

Automatic squelch with manual override.

NAVIGATION SECTION

NAV RECEIVER FREQUENCY RANGE:

108.00 MHz to 117.95 MHz in 50 kHz increments

FREQUENCY STABILITY:

0.0015%

VOR/LOC SENSITIVITY:

¹/₂ flag sensitivity 2μV (hard) or less (typically 1μV) on all channels

VOR/LOC CONVERTER

ACCURACY (KX 165 only):

VOR – Typical bearing error of less than 0.5° with precision track selector (2° max. error) LOC – Typical centering error of less

than 3μA (7μA max. error). **RECEIVER SELECTIVITY**:

6dB at 34.8 kHz minimum 80dB at 84.0 kHz maximum

AUDIO OUTPUT:

With a 1 kHz tone 30% modulation at least 100mW output into 500 ohm loads.

DME CHANNELING

Serial DME channeling provided for KN 62/62A, KN 63, KN 64, KDM 706/706A DMEs.

Slip code and 2x5 DME channeling available using KA 120 channeling adapter.

GLIDESLOPE RECEIVER

NUMBER OF CHANNELS 40 (150 kHz spacing)

FREQUENCY RANGE 329.15 MHz to 335.00 MHz

AUDIO AMP

(Optional on KX 155, N/A on KX 165) 4 OHM OUTPUT: 4 watts minimum (13.75VDC)

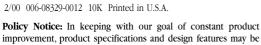
8 watts minimum (27.5VDC)

INPUTS:

Two (2) 500 ohm auxiliary inputs

Honeywell

23500 W. 105th Street, Olathe, KS 66061-1950 Telephone 913.712.2613 Fax 913.712.5697 Toll-Free in U.S. 877.712.2386 www.bendixking.com



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