

## **Bendix King KI 525A and KA 51B Pilot's Guide**

Horizontal Situation Indicator (HSI). Filename: **BendixKingHSI!KI525A\_JD**

Slaving Adapter – Horizontal Mount. Filename: **BendixKingHSI!KA51B\_H\_JD**

Slaving Adapter – Vertical Mount. Filename: **BendixKingHSI!KA51B\_V\_JD**



### **KI 525A Indicators and Controls**



### **Hotspots:**



1. Course Knob
2. Heading Bug Knob
3. Slaving Meter
4. SLAVE/FREE Switch
5. CW/CCW Switch

In a real aircraft the KI 525A and KA 51B are part of the KCS 55A System comprising:

|         |  |
|---------|--|
| KI 525A | Horizontal Situation Indicator (HSI)                           |
| KA 51B  | Slaving Adapter  |
| KG 102A | Directional Gyro (remotely mounted)                            |
| KMT 112 | Fluxgate Compass (remotely mounted, usually in wingtip or fin) |
| KA 52   | Autopilot Adapter (remotely mounted - optional)                |

In this package the KI 525A and two versions of the KA 51B are provided.

### 1. KI 525A Course Knob

This is used to adjust the course pointer to the desired course on the compass card.

To turn the course pointer to the left use a left mouse click, to the right a right mouse click, or use the mouse wheel.

### 2. KI 525A Heading Bug Knob

To adjust the heading bug to the left use a left mouse click, to the right a right mouse click, or use the mouse wheel.

### 3. KA 51B Slaving Meter

This meter indicates the difference between the displayed heading and the magnetic heading.

A deflection towards the “+” label indicates a clockwise error of the compass card.

A deflection towards the “-” label indicates a counter-clockwise error of the compass card.

### 4. KA 51B SLAVE/FREE switch

Click this switch to toggle between the SLAVE and FREE position. A click is heard.

**Note: for custom sounds to be heard, the gauge dsd\_fsx\_xml\_sound.gau must be installed – see Note 1.**

When in the SLAVE position, the system is in the slaved gyro mode, and the compass card will automatically fast slave toward the magnetic heading. When the switch is in the FREE position, the system is in the free gyro mode.

The free gyro mode allows manual slaving when fully automatic operation is not desired.

### 5. KA 51B CW/CCW switch

With the SLAVE/FREE switch in the FREE position use this switch to turn the HSI compass card in either a clockwise (CW) direction using a left mouse click, or a counter-clockwise (CCW) direction using a right mouse click. A click is heard.

This action is similar to using the compass adjusting knob on a conventional heading indicator.

## Spoof Features

The following “spoof” features are not available on the real KI 525A, but are quite useful, and may be available on some more modern fully electronic devices such as the Garmin G5 HSI.

### 1. Sync Heading Bug

To quickly set the heading bug to the current heading, middle-click the heading bug knob.

### 2. Sync Course Pointer

If the NAV1 radio is tuned to a beacon, with the NAV/GPS switch set to NAV, middle-click the course knob to make the course pointer swing round to the beacon bearing, with the CDI centred.

If a valid waypoint is set on the GPS, with the NAV/GPS switch set to GPS, middle-click the course knob to make the course pointer swing round to the waypoint heading.

### **Note 1. Sounds**

Not required if the KI 525A is installed without the KA 51B.

For custom sounds to be heard on the KA51B, the gauge `dsd_fsx_xml_sound.gau` must be installed. This is a freeware gauge from Doug Dawson. See Credit for Sound Gauge below.

### **Installation**

Download the file: `dsd_fsx_xml_sound.zip` available from FlightSim.com.

Unzip the zip file.

#### **Step 1.**

Install the file: `dsd_fsx_xml_sound.gau` into the flight simulator **Gauges** sub-folder.

(Normally ...\\fsx\\Gauges or ...\\Flight Simulator 9\\Gauges)

#### **Step 2.**

Install the file: **SoundJD.ini** into the flight simulator **Gauges** sub-folder.

(The file **SoundJD.ini**, and the folder: **SoundJD** are included in the KX155A package.)

#### **Step 3.**

Install the folder **SoundJD** into the flight simulator **Sound** sub-folder.

(Normally ...\\fsx\\Sound or ...\\Flight Simulator 9\\Sound)

#### **Step 4.**

Copy and paste the line:

`gaugenn=dsd_fsx_xml_sound!Sound, 2,2,2,2, ./gauges/SoundJD.ini` into the [Window00] section in the Panel.cfg file for every aircraft that has the KX155A installed. (Where nn is the next available gauge number). Note the dot before /gauges !

### **Credit for Sound Gauge**

Many thanks to Doug Dawson, for his excellent freeware sound gauge.

It is available from various flightsim websites (e.g. Flightsim.Com and Avsim.)

This is a very sophisticated and versatile application - the above installation only used a fraction of the capability available.

### **Note 2. KA51B Operation**

For the KA51B to work correctly, there must be an entry in the aircraft.cfg file as follows:

[direction\_indicators]

direction\_indicator.0=2,0