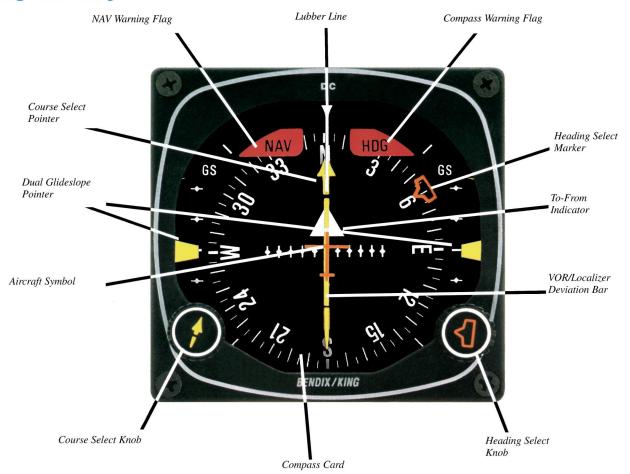
KCS 55A
Bendix/King
Compass System
with HSI Indicator



Pointing The Way



The remote-mounted KCS 55A Compass System is an affordably-priced automatic slaving compass system. As with more expensive units, the KCS 55A automatically displays precise aircraft magnetic heading. No manual setting of the compass card is required.

The system is built around the KI 525A Horizontal Situation Indicator (HSI), a panel-mounted display weighing less than 4 lbs. The KI 525A replaces the aircraft's standard Directional Gyro and the number one Course Deviation Indicator (CDI), as it incorporates this information.

Magnetic Heading and VOR or LOC course information is combined on the HSI in a pictorial symbolic presentation of the complete navigation situation. The unit thus simplifies VOR/LOC course orientation, intercept and tracking as it relieves the pilot

of the chore of integrating information from two instruments.

In addition, the internally-lighted KI 525A HSI includes dual glideslope pointers, which are in view only during an ILS approach. En route, the pointers are kept out of view, leaving an uncluttered presentation.

Display elements include:

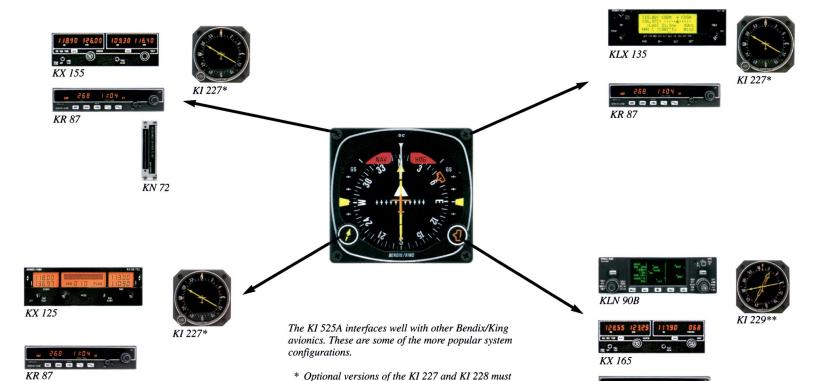
- · Slaved gyro magnetic heading
- Selected heading
- Selected VOR/GPS/RNAV or LOC course
- GPS/RNAV/VOR/Localizer deviation
- TO/FROM, GPS/RNAV or VOR indicator
- Glideslope deviation

In addition, the KI 525A provides selected heading and course outputs for Bendix/King Flight Control Systems,

including the KFC 275, KFC 250, KFC/KAP 200, KFC/KAP 150, KAP 150H and KAP 100. An optional heading output is available for driving an RMI or other accessories. (See the table on the back for a list of KCS 55A system interfaces with other popular autopilots.)

When coupled to an autopilot, the KCS 55A can be interconnected to provide automatic disengagement of the autopilot when the "HDG" flag comes into view.

The KA 51B Slaving Control and Compensator Unit provides selectable "slaved gyro" or "free gyro" modes. Manual slaving capability is available when the system is in "free gyro" mode, while a visual meter displays the slaving error. The KA 51B is also internally lighted.



be used to synchronize heading with the KI 525A.

** The KI 525A requires optional bootstrap output

to drive the KI 229 compass card.



The KCS 55A System

The KCS 55A system typically incorporates four components, including the KI 525A HSI (1); the remote-mounted KG 102A Directional Gyro (2); the remotemounted KMT 112 Magnetic Slaving Transmitter (3); and the panel-mounted KA 51B Slaving Control (4) and Compensator Unit. The optional remote-mounted KA 52 or KA 57 Autopilot Adapters (5) are available to convert DC heading and course data signals into AC signals compatible with autopilots or flight director systems manufactured by other companies.



A Matching Horizon

KR 87

The KI 525A HSI can be teamed with our affordable KG 258 Horizon (shown here) to provide a complete primary flight display. The KG 258 airdriven artificial horizon with electrical pitch and roll outputs is specifically designed for use with most Bendix/King autopilots. When a flight control system is not available, the KG 259 Horizon (identical in appearance) can be substituted.

Specifications

KCS 55A Compass System with KI 525A HSI Indicator

TSO Compliance:

TSO C6c

RTCA Environmental Categories

KI 525A, KA 51B:

DAMAAAXXXXXX

KG 102A, KA 52,

KA 57: KMT 112: BAJAAAXXXXXX BASAAAXXXXXX

System Accuracy: Accurate to within 2 degrees of local magnetic heading.

Power Requirements:

13.75VDC (15.8 max.) (11.0 min.)

3.23 amps

or

27.5VDC

(31.6 max.) (22.0 min.) 1.73

1.73 amps

Slaving Rate:

Normal: 3 degrees per minute Fast: 180 degrees per minute

Warm-up Time: Varies from one minute

at +55°C to 5 minutes at -46°C. **Altitude:** - 1,000 to +40,000 feet

KI 525A

Size: 3.375 x 3.550 x 7.305 inches, nominal (8.57 x 9.02 x 18.55 centimeters) **Weight:** 3.94 pounds (1.786 kilograms)

KG 102A

Size: 5.370 x 7.790 x 4.290 inches, nominal

(13.64 x 19.79 x 10.90 centimeters) **Weight:** 4.3 pounds (1.95 kilograms)

KMT 112

Size: 3.37 in. dia. x 1.81 in. high, nominal (8.55 cm. dia. x 4.64 cm. high)

Weight: 0.3 pounds (150 grams)

KA 51B

Size: 1.20 x 2.12 x 3.00 inches, nominal (3.05 x 5.38 x 7.62 centimeters). Vertical or horizontal mount available.

Weight: 0.2 pounds or .09 kg

KA 52 and KA 57

Size: 1.259 x 3.172 x 4.016 inches, nominal (3.20 x 8.06 x 10.20 centimeters)

Weight: 0.4 pounds (170 grams)

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Policy Note: In keeping with Honeywell's goal of constant product improvement, product specifications and design features may be altered without notice. And, since avionics installation requires special skills, tools and equipment, our limited warranty is valid only for equipment installed in accordance with our sales policy.

KCS 55A AUTOPILO	OT INTERFACES	
	Autopilot Computer or	Required KCS55A Autopilo
Autopilot Type	Radio Coupler	Coupler
Century (Formerly Edo/Mitchell)	Radio Coupler	KA 57(1)
Century II & III and	IC-388	KA 57(1)
Piper Altimatic III	IC-388M	KA 57(1)
	IC-388P	KA 57(1)
	IC-388C	KA 57(1)
	IC-388MC	KA 57(1)
	IC-3888PC	KA 52
	IC-388-3	KA 52
Century IV	ARINC ID-496-X1XX2	
Century 21, 31, 41	IC-930	None
		Required
Bendix:	Computer	
FCS-810	CA-814A	KA 52
Cessna:	Control/Selector	KA 52†
Nav-O-Matic 300	C-394A	KA 57(2)
Nav-O-Matic300A	C-395A	KA 57
Nav-O-Matic 400	C-520A/B	KA 52
Nav-O-Matic 400 (w/Flt. Dir.)	S-530A	KA 57(3)
Nav-O-Matic 400A (wo/Flt. Dir.)	C-530A	KA 57
Nav-O-Matic 400B	CA 550 A/FD	
STEC		
All Models	All	None
		Required

(1) KA 57 used with 1C-388 series couplers should have Mod 5 installed.

(2) Wire per I.B. #117 revised. (3) Wire per I.B. #114. (4) See I.B. #151.

BENDIX/KING

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