

BENDIX/KING KCM-805 TAS CONFIGURATION MODULE - ADJUSTMENT/TEST

1. General

A. This section gives the configuration procedures for the Bendix/King KTA-810 TAS Configuration Module. For a general overview of the KTA-870 traffic advisory system refer to, Bendix/King KTA-870 Traffic Advisory System - Description and Operation.

2. Bendix/King KTA-810 TAS Configuration Module Configuration

A. Tools and Equipment

(1) Tools and Equipment

- An IBM compatible laptop computer with a Windows 3.1 or higher operating system
- The laptop must have KTADIAG software installed an an available COM port
- A RS232C serial data interconnect cable.

(2) Special Consumables

- None.

(3) Reference Material

- Bendix/King KTA-870 Traffic Advisory System - Description and Operation.

B. Prepare the Airplane

Prepare the Airplane

(1) Make sure that the switches that follow are in the OFF position:

- (a) BATTERY switch.
- (b) EXTERNAL POWER switch.
- (c) AVIONICS 1 and 2 switches.

(2) Connect external electrical power to the airplane.

- (a) Adjust the ground power unit (GPU) to 28Vdc, +0.5 or -0.5 Vdc.

(3) Make sure that all the circuit breakers on the Avionics circuit breaker panel are engaged.

(4) Put the switches that follow in the positions given:

- (a) External POWER switch to the BUS position.
- (b) BATTERY switch to the ON position.
- (c) Avionics 1 and 2 switches to the ON position.

(5) Make sure that the circuit breaker given in Table 501 is engaged.

Table 501. Circuit Breakers

Circuit Breaker Name	Circuit Breaker Location
TAS	Avionics Circuit Breaker Panel

C. Do the KTA-810 TAS Configuration Module Configuration (Refer to Figure 501).

(1) Power on the laptop.

(2) Connect the laptop to the TAS diagnostic disconnect (JI700), found on the lower- right instrument panel.

(3) Start the KTADIAG program.

NOTE: When the KTADIAG program begins, it will automatically establish communications.

(4) For first-time connection, select the "INITIALIZE CONFIG MOD" under the "CONFIG MOD" drop down menu.

- (a) The configuration module strap values are set to default values.

(5) If not a first-time connection select the "MODIFY DATA" option.

(6) Review each of the two Modify Config Module Data - Straps Pages and use the list boxes and radio buttons to modify the the configuration to match the airplane systems that are installed.

- (a) If the KRA 405B is installed on the airplane, on the STRAPS 1 page select ARINC 429.

- 1 If on the Straps Page 1 ARINC 429 is selected, on Straps Page 2 the Heading Valid Sense cannot be selected,

- (7) When configuration is complete, click the OK button to save to the configuration module.
- D. Put the Airplane Back to its Initial Condition.
- (1) Power down the laptop.
 - (a) Disconnect the laptop from the TAS diagnostic disconnect.
 - (b) Remove the laptop from the airplane.
 - (2) Put the switches that follow to the OFF position:
 - (a) BATTERY switch.
 - (b) EXTERNAL POWER switch.
 - (c) AVIONICS 1 and 2 switches.
 - (3) Disconnect external electrical power from the airplane.

Figure 501 : Sheet 1 : Modify Config Module Data - Straps (Page 1 and Page 2)

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Modify Config Module Data ? X

Straps Page 1 | Straps Page 2

Heading Type	ARINC 429 Data ▾		Audio Volume	
Altitude Type	Not Installed ▾		Airborne Headphones	100.00 mW ▾
Controller Type	Discrete ▾		Ground Headphones	100.00 mW ▾
Baro Altimeter Type		Radio Altimeter Type — 4		
<input type="radio"/> Gillham <input type="radio"/> ARINC 709/429 <input type="radio"/> ARINC 575/419		<input type="radio"/> ARINC 429 <input type="radio"/> ARINC 552A <input type="radio"/> -10 mV/ft (i.e., KRA 405A) <input type="radio"/> -4 mV/ft (i.e., Sperry, KRA 10A) <input type="radio"/> Dual Slope (i.e., Collins, KRA 405) <input type="radio"/> Not Installed		

Modify Config Module Data ? X

Straps Page 1 | Straps Page 2

Intruder File Protocol	ARINC 735 ▾		On-Ground Display Mode	TA Only ▾
Airborne Functional Test	Allow ▾		Display Valid Input Usage	Ignore ▾
Display Intruder Limit	12 Intruders ▾		ATE Outputs	Disable ▾
Heading Valid Sense	5	XXX ▾	RS-422 Output	Disable ▾