BENDIX/KING KRA 405B RADAR ALTIMETER SYSTEM - ADJUSTMENT/TEST

1. General

A. This section gives the adjustment and test procedures for the Bendix/King KRA 405B Radar Altimeter System. For a general overview of the KRA 405B Radar Altimeter System refer to, Bendix/King KRA 405B Radar Altimeter System - Description and Operation.

2. Bendix/King KRA 405B Radar Altimeter System Operational Check

A. Tools and Equipment

NOTE: For the supplier publication part number and manufacturer data, refer to the Introduction - Supplier Publication List.

(1) Tools and Equipment

- Microwave absorbent foam.

(2) Special Consumables

- None.

(3) Reference Material

- Bendix/King KRA 405B Radar Altimeter System - Description and Operation
- Garmin G1000 Integrated Avionics System - Adjustment/Test.

B. 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.

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

(4) Put the switches that follow to 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) After the Garmin G1000 system is fully initiated refer to Garmin G1000 Integrated Avionics System - Adjustment/Test and do the steps that follow:

(a) Do the Architecture Verification check and make sure all systems are serviceable.

(b) Make sure that the correct software and configuration has been installed.

C. KRA 405B Radar Altimeter Sensor Systems Antenna Operational Check.

(1) Hold the piece of microwave absorbent foam over both the transmit and receive antennas on the aft end of the aircraft.

(a) Make sure that the foam is between three to six inches away from the antennas.

(2) While a technician holds the microwave absorbent foam over the antennas, monitor the RAD ALT indication located above the HSI on each of the two primary flight displays (PFD)s.

(a) Make sure that the RAD ALT indication is greater than 0 feet.

(3) While the microwave foam is alternately moved closer and farther away from the antennas monitor the RAD ALT indication on the PFD's.

(a) Make sure that the indication increases and decreases as the foam is moved back and forth.

(4) Move the foam completely away from the antennas.

(a) Make sure that the RAD ALT indication returns to 0 feet.

D. Put the Airplane Back to its Initial Condition.

(1) Put the switches that follow to the OFF position:

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

(2) Disconnect external electrical power from the airplane.