

## BENDIX/KING KR 87 ADF SYSTEM - ADJUSTMENT/TEST

### 1. General

- A. This section gives the adjustment and test procedures for the Bendix/King KR 87 ADF System. For a general overview of the KR 87 ADF System refer to, Bendix/King KR 87 ADF System - Description and Operation.

### 2. Bendix/King KR 87 ADF 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
  - IFR 60000 Ramp Test Set.
- (2) Special Consumables
  - None.
- (3) Reference Material
  - Bendix/King KR 87 ADF System - Description and Operation
  - 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.
  - (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 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. Refer to G1000 Integrated Avionics System - Adjustment/Test, G1000 Architecture Verification Check.
  - (b) Make sure that the correct software and configuration has been installed.

- C. KR 87 ADF System Bearing Pointer and Tuner Operational Check.

- (1) Before you power on the KR 87 ADF, make sure that the ADF button, (left-most button on the face of the receiver unit), is pushed in.

**NOTE:** This will make sure that the unit is operating in ADF mode.
- (2) On the receiver, use the concentric tuning knobs to tune the receiver to a local AM signal.
- (3) On the face of the KR 87 ADF, turn the ON/VOL knob to power the KR 87 system on.
- (4) On the primary flight display (PFD) 1, push the PFD softkey to enable the PFD mode menu.
- (5) Push the BRG1 softkey until the cyan-colored ADF pointer is displayed on the HSI.
  - (a) Make sure that the ADF pointer on each of the two PFD's indicate the correct bearing to the signal source you selected before.

- D. KR 87 ADF System Audio Check

- (1) On the GMA 1347/1360D audio panel:
  - (a) Push the ADF button to select as the audio source.

- (b) Push the SPKR button to select speaker on.
  - (2) Make sure that the ADF audio is heard on the headsets and the speaker.
- E. 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.