

BENDIX/KING KN 63 DME SYSTEM - ADJUSTMENT/TEST**1. General**

- A. This section gives the adjustment and test procedures for the Bendix/King KN 63 DME System. For a general overview of the KN 63 DME system refer to, Bendix/King KN 63 DME System - Description and Operation.

2. Bendix/King KN 63 DME System Antenna 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 6000 Ramp Test Set.
- (2) Special Consumables
 - None.
- (3) Reference Material
 - Bendix/King KN 63 DME System - Description and Operation.

- 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 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) 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. DME Antenna Operational Check

- (1) On primary flight display (PFD) 1, tune NAV1 to 108.00 MHz (DME frequency of 1041 MHz).
- (2) On PFD 1 top-level menu select the PFD softkey to enter the PFD mode menu.
- (3) On the PFD mode menu select DME to activate the DME information window.
 - (a) The window is shown on the lower left of the HSI of each of the two PFD's.
- (4) From the PFD top level softkeys select DME.
- (5) On the right side of the PFD bezel, push the FMS knob to highlight the cursor.
- (6) Use the inner knob, to move the cursor to the DME field.
- (7) Turn the inner knob to activate the drop down box.
 - (a) Select NAV1.
 - (b) Push the ENT button to enter the data.
- (8) On the IFR 6000 Ramp Test Set select the DME Softkey to access the DME.
- (9) Set the DME test set controls as follows, Refer to Table 501.

Table 501. IFR 6000 DME Test Parameters

Parameter	Value
VOR	108.00
RATE	0 kts STOP
RANGE	195 nm
RF LVL	-50 dBm
% REPLY	100%
ECHO	OFF
SQTR	ON
IDENT	ON

(10) Make sure that DME digital distance on PFD 1 matches the test set distance (195.0nm, +0.1nm or -0.1nm).

D. KN 63 Audio Check

(1) On the GMA 1347 audio panel:

- (a) Select DME as the audio source.
- (b) Push the SPKR to select the speaker.

(2) On the IFR 6000, select DME IDENT to ON.

- (a) Make sure that an ident tone (Morse code) is heard at approximately 20 second intervals.

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.