

BENDIX/KING KN 63 DME SYSTEM - DESCRIPTION AND OPERATION

1. General

- A. This section gives the description and operation of the Bendix/King KN 63 DME System. The KN 63 DME system line replaceable units (LRU)'s include the, Comant DME antenna and the KN 63 receiver.
- B. Refer to Figure 1 for a general view of the KN 63 DME system.

2. Description

- A. The Bendix/King KN 63 DME system is a stand alone system that interfaces with the Garmin G1000 integrated avionics system to give distance data that is shown on the primary flight display (PFD). The KN 63 is a remote-mounted, 200-channel, 100-watt output, solid-state, digital DME with an operating frequency range of 960 MHz to 1215 MHz, which provides distance data to the G1000 system.
 - (1) The KN 63 DME receiver is installed between FS 100 and FS 118, 100 at WL 98.50, forward of the copilot door on the outboard side of the cockpit.
 - (2) The DME antenna is installed on the bottom of the fuselage or cargo pod as follows:
 - (a) Model 208, no pod: FS 237, RBL 12.25
 - (b) Model 208B no pod: FS 285, RBL 12.25
 - (c) Model 208 pod: FS 209.15, RBL 11.53
 - (d) Model 208B pod: FS 257.15, RBL 11.53.

3. Operation

- A. The PFD softkeys are the pilot interface and control for the DME system. The PFD allows the pilot to choose the tuning mode of the DME (NAV 1, NAV 2, or HOLD). Once the tuning mode of the DME has been selected, the pilot can use the PFD softkeys to show the DME data which consists of a window labeled 'DME' listing the distance to the signal selected.
 - (1) The KN 63 DME system is given 28 Vdc electrical power through the DME circuit breaker, found on the Avionics circuit breaker panel.
 - (2) The KN 63 DME provides serial data to the Garmin GIA 63W/64W integrated avionics unit No. 2 and analog audio to the audio panel.
 - (3) The incoming audio can be heard in headsets or over the speaker when DME audio is selected on the audio panel.
- B. The search time for the KN 63 to lock on to a ground station is less than one second. The maximum display range 389 nautical miles. The effective range depends location and altitude of the ground transmitter, transmitter power output and the altitude of the airplane. When on the ground, the airplane will usually will not receive DME station signals.

Figure 1 : Sheet 1 : Bendix/King KN 63 DME System

