

PROPELLER BETA INDICATING SYSTEM - DESCRIPTION AND OPERATION

1. General

NOTE: The propeller beta indication system is applicable to all Brazilian and British certified airplanes.

- A. The beta indicating system is utilized to advise the pilot that the engine power lever has been positioned past the flight idle position on the power quadrant. For Airplanes 20800500 and On and Airplanes 208B2000 and On the pilot is advised that the engine propeller is in the reverse position by the crew alerting system (CAS) message BETA (red) that shows on the primary flight display (PFD) CAS message window. For Airplanes 20800001 thru 20800499 and Airplanes 208B0001 thru 208B1999, the propeller is shown to be in the reverse position when the annunciator panel BETA light comes on.

2. Description

- A. The beta switch is mounted on the forward area of the engine. The beta switch is actuated by the propeller reversing lever connected to the propeller governor, carbon block and cam. The carbon block rides in the propeller feedback ring of the propeller assembly. The feedback ring movement is controlled by the movement of the propeller servo piston, and the servo piston is controlled by the amount of oil allowed to flow to the propeller by the governor.