

# AIRPLANE TURBOPROP ENGINES

## BASIC FAMILIARIZATION

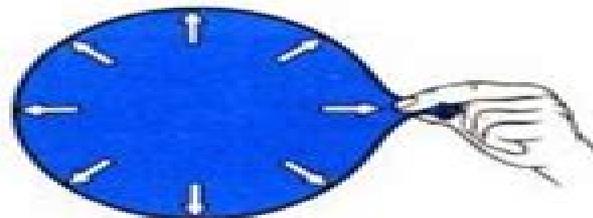
### INTRODUCTION

Many of today's airplanes are powered by turboprop engines. These engines are quite reliable, providing years of trouble-free service. However, because of the rarity of turboprop engine malfunctions, and the limitations of simulating those malfunctions, many flight crews have felt unprepared to diagnose engine malfunctions that have occurred.

The purpose of this text is to provide straightforward material to give flight crews the basics of airplane engine operational theory. This text will also provide pertinent information about malfunctions that may be encountered during the operation of turboprop-powered airplanes.

It is not the purpose of this text to supersede or replace more detailed instructional texts or to suggest limiting the flight crew's understanding and working knowledge of airplane turbine engine operation and malfunctions to the topics and depth covered here. Upon completing this material, flight crews should understand that some engine malfunctions can feel and sound more severe than anything they have ever experienced; however, the airplane is still flyable, and the first priority of the flight crew should remain "fly the airplane."

### PROPULSION



*Figure 1 showing balloon with no escape path for the air inside. All forces are balanced.*

Propulsion is the net force that results from unequal pressures. Gas (air) under pressure in a sealed container exerts equal pressure on all surfaces of the container; therefore, all the forces are balanced and there are no forces to make the container move.

# Airplane Turboprop Engines Basic Familiarization

**AW Rasmussen**



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