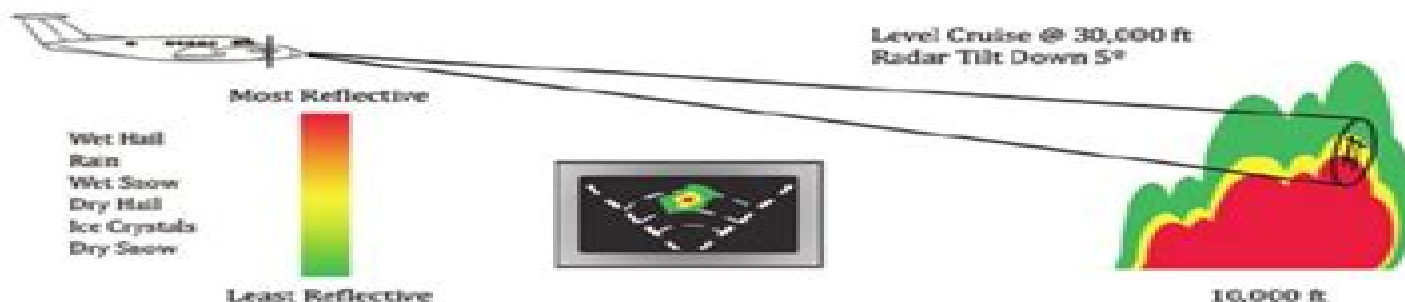




Airborne Weather Radar

Theory & Operation for More Effective Troubleshooting

STORY BY DAVID W. MANIEN, TEXASGYRO

EDITOR'S NOTE:

Avionics News will present this white paper, authored by TexasGYRO, in multiple parts. This white paper presentation is for training purposes only. Its sole intent is to improve the maintenance technician's knowledge and understanding of airborne weather radar systems. Refer to manufacturer's most current technical data, maintenance and/or installation manuals or pilot's guides whenever performing maintenance on aircraft or aircraft components.

1. INTRODUCTION

► White Paper Objectives

Primary objectives will be:

1. Understand the history and theory of Airborne Weather Radar.
2. Understand how Weather Radar systems operate from the pilot's perspective.
3. Understand how to properly interpret the pilot's complaint, discrepancy or squall.
4. Understand flight-line troubleshooting and repair of Airborne Weather Radar systems.
5. Understand Radar Stabilization, and how to perform a Radar Stabilization Alignment.

► Reasons For Weather Radar

Three common threats to aircraft are turbulence, hail and windshear at low altitude. All three of these are by-products of thunderstorms. Weather radar is a popular method of alerting the flight crew to the presence and location of thunderstorms.

An airborne weather radar is technically called a Weather AVOIDANCE Radar. The radar system will provide the pilot with the necessary weather information to avoid, not penetrate, severe and dangerous weather.

► Safety

Radar systems can be dangerous and life threatening if warnings and cautions are not followed. The manufacturers maintenance manuals contain numerous warn-

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