

INTRODUCTION

1. General

This manual and the EMMA program contain the inspection requirements recommended by Viking Air Limited, for the DHC-6 Twin Otter aircraft, Series 1, 100, 200, 300 and 400. These inspection requirements can be used as a basis for an inspection program for local regulatory authority approval.

Compliance with these requirements will ensure the aircraft's continued airworthiness and operational reliability throughout its entire life.

Note The manual does not contain any requirements for the upkeep of upholstery, furnishings and related parts, or general cleanliness of the aircraft. It is in the best interest of the owner to ensure also that the general condition is maintained at the highest possible standard from the standpoint of both esthetics and maximum life.

2. Structural Life Limits

Certain structural components are so important to the flight safety of the aircraft that they should be replaced by new components at certain stages of the aircraft's life to avoid any possibility of fatigue failure. Approved Service Life Limits for those components subject to the applicable airworthiness regulations (SFAR 23 in this case) are contained in a separate manual PSM 1-6-11. In Part 3 of this manual additional background information is provided for use in conjunction with PSM 1-6-11.

3. Main Differences, Aircraft Series

The main differences between Series 100/200, 300 and 400 Series aircraft are:

Series 100/200	Pratt & Whitney Canada PT6A-20 Hartzell Propeller HC-B3TN-3BY
Series 300	Pratt & Whitney Canada PT6A-27 Hartzell Propeller HC-B3TN-3DY
Series 400	Pratt & Whitney Canada PT6A-34 Hartzell Propeller HC-B3TN-3DY Honeywell Primus Apex® Integrated Avionics Suite Glass Cockpit DC Electrical System Fuel Capacitance Probes Composite Doors (All Doors except Airstair (Post Mod 6/2295))

Minor differences resulting from normal product improvements modifications incorporated on production Series 400 aircraft are, in many cases, available for retrofit on Series 100/200/300 aircraft.

4. Revisions

Revisions to the inspection requirements prescribed by this manual will be prepared and distributed to all active subscription holders on a continuous basis as and when further test and service data is analyzed and assessed. It is the manufacture's intent to provide the operator with realistic and effective inspection requirements to ensure optimum performance of the aircraft from the standpoint of airworthiness, operational reliability and maintenance cost.

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