

Stabilizer Trim Motor

Stabilizer trim actuation on the aircraft is provided by two 3,000-psi, constant-displacement, nine-piston, bent-axis hydraulic motors. Each motor produces 77.3 in-lb torque at 2,250 psid with a rated speed of 2,700 rpm and an intermittent speed of 4,050 rpm. Displacement is 0.216 in³/rev; weight is 3.9 lb.

Hydraulic Motor-Driven Generator

The hydraulic motor-driven generator (HMDG) is a servo-controlled, variable displacement, inline axis-piston hydraulic motor integrated with a three-stage, brushless generator. The HMDG is designed to maintain a steady state generator output frequency of 400 $\pm$ 2V (at the point of regulation) over a rated electrical output range of 10kVA.

AC Motor Pump

Auxiliary power is provided by a 3,110-psi, 12-gpm, 8,000-rpm fluid-cooled motor pump. Some AC motor pumps feature a ceramic feed-through design. This protects the electrical wiring from being exposed to the caustic hydraulic fluid environment.

Leading Edge Slat Drive Motor

Leading edge slat actuation on the aircraft provided by one constant-displacement, nine-piston, bent-axis hydraulic motor. The motor produces 544.3 in-lb torque at 2,250 psid with a rated speed of 3,170 rpm and an intermittent speed of 4,755 rpm. Displacement is 1.52 in³/rev; weight is 13.21 lb.

Emergency Passenger Door Actuator

Plays a critical role in safety; extends to open door when actuated by nitrogen gas pressure. Assembly reaches full extension in 2.75 to 4.16 seconds with output force of 2,507 to 2,830 lb.

Power Transfer Unit

The transfer of hydraulic power (but not fluid) between the left and right independent hydraulic system is accomplished with a nonreversible power transfer unit (PTU) that provides an alternate power source for the leading and trailing edge flaps and the landing gear, including nose gear steering, which are normally driven by the left hydraulic system. The PTU consists of a bent-axis hydraulic motor driving a fixed displacement, in-line pump. Rated speed is 3,900 rpm. Displacement of the pump is 1.39 in³/rev and displacement of the motor is 1.52 in³/rev. The unit weight is 35 lb.

Trailing Edge Flap Drive Motor

Trailing edge flap actuation is provided by one 3,000-psi, constant-displacement, nine-piston, bent-axis hydraulic motor. The motor produces 21.4 in-lb torque at 2,250 psid with a rated speed of 3,750 rpm and an intermittent speed of 5,660 rpm. Displacement is 0.596 in³/rev; weight is 6.5 lb.

Engine-Driven Pump

Hydraulic power for the left and right systems is supplied by two 48-gpm variable-displacement, 3,000-psi pressure compensated in-line pumps. Displacements 3.0 in³/rev; weight is 40.1 lb.

Ram Air Turbine Pump

A 3,025 psi in-line piston pump provides 20 gpm at 3,920 rpm, delivering hydraulic power for the priority flight control surfaces in the event both engines are lost or a total electrical power failure occurs. Displacement is 1.25 in³/rev; weight is 15 lb.

Nose Wheel Steering System

Consists of a digital electronic controller, hydro-mechanical power unit, mounting collar, tiller, and rudder pedal position sensors. The hydro-mechanical power unit (an integrated assembly) includes all the hydraulic valving, power amplification, actuation, and damping components.



Aircraft Systems Aircraft Systems

R Bogdan



Aircraft Systems Aircraft Systems:

Aircraft Systems Ian Moir, Allan Seabridge, 2011-08-26 This third edition of *Aircraft Systems* represents a timely update of the Aerospace Series successful and widely acclaimed flagship title Moir and Seabridge present an in depth study of the general systems of an aircraft electronics hydraulics pneumatics emergency systems and flight control to name but a few that transform an aircraft shell into a living functioning and communicating flying machine Advances in systems technology continue to alloy systems and avionics with aircraft support and flight systems increasingly controlled and monitored by electronics the authors handle the complexities of these overlaps and interactions in a straightforward and accessible manner that also enhances synergy with the book's two sister volumes *Civil Avionics Systems* and *Military Avionics Systems* *Aircraft Systems* 3rd Edition is thoroughly revised and expanded from the last edition in 2001 reflecting the significant technological and procedural changes that have occurred in the interim new aircraft types increased electronic implementation developing markets increased environmental pressures and the emergence of UAVs Every chapter is updated and the latest technologies depicted It offers an essential reference tool for aerospace industry researchers and practitioners such as aircraft designers fuel specialists engine specialists and ground crew maintenance providers as well as a textbook for senior undergraduate and postgraduate students in systems engineering aerospace and engineering avionics

Aircraft Systems Classifications Allan Seabridge, Mohammad Radaei, 2022-04-25 *Aircraft Systems Classifications* Enables aerospace professionals to quickly and accurately reference key information about all types of aircraft systems *Aircraft Systems Classifications A Handbook of Characteristics and Design Guidelines* provides comprehensive information on aircraft systems delivered in a concise direct and standardized way allowing readers to easily find the information they need The book presents a full set of characteristics and requirements for all types of aircraft systems including avionic mission and supporting ground systems in a single volume Readers can delve further into specific topics by referencing the detailed glossary and bibliography To aid in reader comprehension each aircraft system is broken down according to various criteria such as Purpose description and safety Integration with other systems Key interfaces and design drivers Modeling and simulation Best practices and future trends Written for aerospace professionals researchers and advanced students with some existing knowledge of the aircraft industry this book allows readers to quickly reference information on every aspect of aircraft systems

Aircraft Systems for Professional Pilots Peter A. Vosbury, William A. Kohlruss, 2016 *Aircraft Systems For Professional Pilots* from Peter Vosbury and William Kohlruss of Embry Riddle Aeronautical University covers all airframe and engine related systems that are required for an aircraft to be operated effectively efficiently and safely by the flight crew This book is intended for individuals who are learning to fly with their goal being a career as a pilot in corporate commercial or military aviation or for the already professional pilot who wants a review of how systems work A commercial airline pilot instinctively knows that their airplane has a hydraulic system but they may have forgotten the details of what type of pump is

used and how the pump works This book will provide all those details The systems discussed cover everything from small airplanes like a Cessna 172 to large commercial airliners like a Boeing 787 **Aircraft Systems for Pilots** Dale De Remer,1991-01-01

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Design and Development of Aircraft Systems Ian Moir, Allan G. Seabridge, 2004 Design and Development of Aircraft Systems is for people who want to understand how industry develops the customer requirement into a fully integrated tested and qualified product that is safe to fly and fit for purpose

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