

Airplanes

Within a century, airplanes have not only fulfilled humanity's ancient wish to fly but also have become a means of transportation used by many people and can quickly cover great distances. Even though the earliest models—made of wood, fabric, and steel—have evolved into huge jets capable of carrying hundreds of passengers over oceans, as well as into supersonic military aircraft, all planes are governed by the same physical laws.

Hold Up by the Wing

The speed and lift of an airplane is largely a result of the shape of its wing. This shape causes the air flowing above the wing to travel faster than the air below. Pressure resulting from speed, the pressure of the air above decreases, and by using a vacuum it pulls the surrounding air in. This causes the air to be pulled in and the pressure of the air below is higher than the air above, creating lift.



Propulsion

In order for the airplane to fly, it must be propelled forward. The most common method of propulsion is the jet engine, which is the most powerful and efficient.

- 1 The air enters the engine and is compressed.
- 2 The compressed air is heated and expanded, creating thrust.
- 3 The hot gases expand and push the aircraft forward.
- 4 The gases leave the engine and exit the tail.

Jet Engines



Mach

A Mach number is a ratio of the speed of an object to the speed of sound. It is a dimensionless quantity that is used to describe the flow of a fluid (such as air) around an object.

In Flight

When an airplane is in flight, it is subject to a variety of forces that must be balanced in order to maintain a steady course.

Wings

The wings of an airplane are designed to create lift. The shape of the wing, the speed of the air, and the weight of the airplane all play a role in determining the amount of lift.

Engines

The engines of an airplane are responsible for providing the thrust needed to move the aircraft forward.

Flaps

Flaps are movable surfaces on the trailing edge of the wing. They are used to increase the lift and drag of the wing, allowing the aircraft to take off and land at lower speeds.

Stabilizers

Stabilizers are used to maintain the aircraft's attitude and direction. They consist of a horizontal stabilizer and a vertical stabilizer.

Jet Engines



Jet Engines



Airbus System Guide A3320

Facundo Conforti



Airbus System Guide A3320:

Airbus A320 Systems Displays Manual Faraz Sheikh ,2022-03-28 This is a technical 117 pages guide for the Airbus A320 Pilot or Cadet to study an in depth breakdown of the various systems pages including the Engine Warning Display presented in the flightdeck The systems displays include CRUISE ENGINE BLEED CABIN PRESSURE ELECTRIC HYDRAULICS FUEL APU AIR CONDITIONING DOOR OXYGEN WHEELS and FLIGHT CONTROLS We have also added a description of the Slats and Flaps part displayed normally on the EWD accessible via the Flight Controls chapter The book comes detailed with high resolution system screen images including images for the various parameters and components which are displayed on the system screens It is compatible for the A320 CEO and NEO variants This guide is created for TRAINING PURPOSES ONLY and is NOT to be used for real OPERATIONS

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will cover all the contents of the normal operation of each system omitting the resolution of faults or the abnormal operation of each one of them Divided into four chapters we will cover all the systems that make up the most sold and flown commercial aircraft in recent years *A320* Airbus Industrie,1989 *Airbus Industrie A300 Flight Crew Operating Manual* Airbus Industrie,1979 *Airbus A320* Facundo Conforti,2019-11-03 Welcome to the most advanced version of the HDIW collection In this edition we will know all the abnormal operation of one of the most sold and flown commercial aircraft in the commercial aviation We will know everything about the fabulous Airbus 320 We will learn the abnormal operation of the main systems of the airplane How each of them works and how they are operated by the pilots from the control panels in the cockpit A practical guide didactic and entertaining for any professional who is about to start flying A320 or for any professional who wants to expand their frontiers of knowledge This edition of the most prestigious collection in Latin America promises to mark the difference in the way of learning the systems of an airplane *Airbus A320 Normal Operation* Biblioteca Aeronáutica,2024-08-19 Welcome to one of the most advanced versions of the Aeronautical Library In this new work of the AIRBUS A320 series we will know the normal operation of the aircraft during a real commercial flight from the city of Malaga Spain LEMG to the city of Valencia Spain LEVC The purpose of this manual is that each reader learns everything that happens during a normal flight from the moment the pilots arrive at the airport prepare the cabin and develop the flight to the moment when they reach their destination AIRBUS A320 Normal Operation is the ideal complement to the rest of the A320 collection in all its volumes Each step is explained with the most precise detail and graphics of the panels that the pilot will operate in each instance of the flight in addition to the cartography that should be used for a flight of these circumstances And as an added value all communication structures between the pilot and the controller A practical and entertaining guide that only the Aeronautical Library can offer A subject as complex as the operations of A320 it becomes a simple and enjoyable topic to read in this entertaining and didactic manual **A320 Technical Training Manual 32** Airbus Industrie. Aeroformation,1989

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