

## BLEED

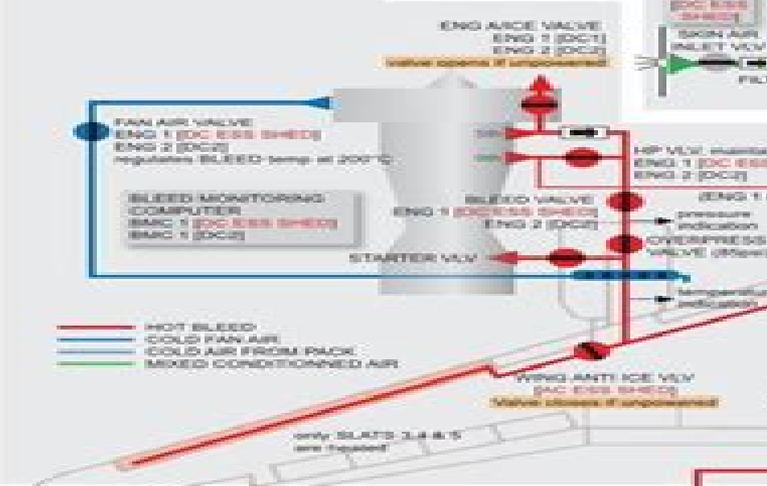
**CAUTION:** do not use HP GND air with APU bleed

- Regulated pressure 45 +/- 5 psi
- Leak detection
  - single loop for APU and system ducts
  - double loop for wing ducts

## AVIONICS VENTILATION

**CONFIGURATIONS:**  
**CLOSED:** on GND (24°C<math><\/math> to 32°C) or FLT (24°C to 35°C)  
**INTERMEDIATE:** 2 (24°C to 29°C) then EXTRACT VLV partially opens  
**OPEN:** on GND (24°C to 32°C)  
**SMOKE CONFIG**

**FAN SPEED (NOM/JLP-S)**  
 H 2 F > 40°C  
 LO 2 F T = 35°C



- HOT BLEED
- COLD FAN AIR
- COLD AIR FROM PACK
- MIXED CONDITIONED AIR

## APU

**LIMITATIONS**  
 RPM max: 90%, max 92% (auto shut down)  
 running EGT max 660°C (5sec) or 750-742 start EGT max 900°C > 25000h  
 start EGT max 960°C > 25000h  
 LOW OIL LEVEL: <math><\/math> 15 Rev APU max start cycles: 5, then 3, then 3, 80min envelope  
 START with AC power up to 36000h  
 START with EMER ELEC power up to 25000h  
 BLEED ON 2 packs max: 15000h, 1 pack max: 20000h  
 BLEED ON for engine start max: 20000h  
 BLEED for WING ANICE not permitted  
 APU FUEL FLOW = 130 kg/hr

## FUEL A319/A320

TOTAL TANKS CAPACITY (den 0.785kg/l)  
**18728kg / 19004kg (JLP-S)**

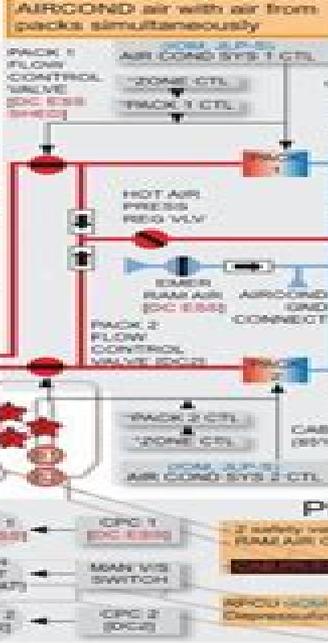


**OUTER IN INNER TRANSFER**  
 XFR valves open when 2000h have <math><\/math> 750kg  
 XFR only with Outer TK full  
 Automatic XFR after landing  
 In event, manual DEFUEL panel (PWR ON) or transfer via DEFUELOVR valve

**FUEL IMBALANCE A319/A320**  
 WING TK Fuel max 15000kg  
 INNER TK 4300kg max 15000kg  
 INNER TK 2250kg max 2250kg  
 no limitations below 2250kg  
 OUTER TK max 600kg, if OUTER+INNER same  
 or 500kg of empty OUTER equal or higher (up to 30 of opposite INNER)

\* all others from type

## CAUTION: do not use GND AIRCOND air with air from packs simultaneously



## AIRCOND

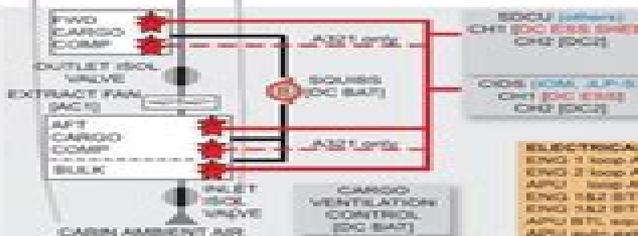
**PACK CTL**  
 From fail => neg. test not required  
 Sec fail => ECAM signal test  
 Both fail => 3-30°C in 2' by active vlv  
**ZONE CTL**  
 From fail => 24°C for pack 1  
 Sec fail => no effect  
 Both lanes fail => pack 2 15°C pack 2

## PRESSURIZATION

2 safety valves (press 8.5psi or <math><\/math> 25psi)  
 FAN AIR ON and 24" level, outfl. vlv 50% opens  
 25000h => 2500h  
 APU (NOM, JLP-S)  
 Depressures in case of residual press on GND

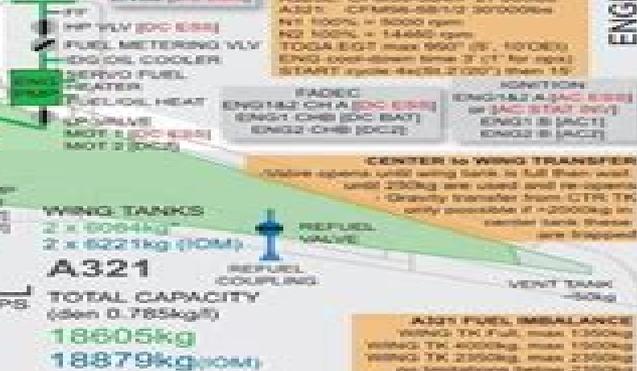
## FIRE PROTECTION & CARGO VENT

- SMOKE DETECTORS
- FIRE DETECTORS
- FIRE BOTTLES



**ELECTRICAL SUPPLY**  
 ENG 1 loop A (DC ESS), loop B (DC2)  
 ENG 2 loop A (DC2), loop B (DC ESS)  
 APU loop A, B (DC BATT)  
 ENG 1&2 BTL 1 (NOM/JLP-S) 1 (NOM/JLP-S) 1 (NOM/JLP-S)  
 ENG 1&2 BTL 2 (NOM/JLP-S) 2 (NOM/JLP-S) 2 (NOM/JLP-S)  
 APU BTL, 1 (NOM/JLP-S) 1 (NOM/JLP-S) 1 (NOM/JLP-S)  
 APU auto extinguish (DC BATT)

## ENGINE



**FUEL NOZZLES** ENG1 (DC BATT) ENG2 (DC ESS)  
 HP VLV (DC ESS)  
 FUEL METERING VLV  
 FUEL OIL COOLER  
 SERVO FUEL HEATER  
 FUEL OIL HEAT  
 FUEL OIL VLV  
 MOT 1 (DC ESS) MOT 2 (DC2)

**FADEC** ENG1&2 CHA (DC ESS) CHB (DC BATT) ENG1 CHB (DC BATT) ENG2 CHB (DC2)  
**IGNITION** ENG1&2 A (DC ESS) B (DC BATT) ENG1 B (NOM/JLP-S) ENG2 B (NOM/JLP-S)

**CENTER to WING TRANSFER**  
 Valve opens and wing tanks to full then wing tank 250kg are used and re-opens  
 Gravity transfer from CTR TK only possible if <math><\/math> 2000kg in center tank (these are trapped)

**A321 FUEL IMBALANCE**  
 WING TK Fuel max 15000kg  
 WING TK 4000kg max 15000kg  
 WING TK 2350kg max 2350kg  
 no limitations below 2350kg

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# Airbus A32systems Guide

**Facundo Conforti**



## **Airbus A320systems Guide:**

**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 accesible via the Flight Controls chapter The book comes detailed with high resolution system screen images including images for the various parameters and componenets 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 *NASA SP.* ,1985 **Management** ,1983

**Sixth WMO Long-term Plan 2004-2011** World Meteorological Organization,2004 The Sixth WMO Long term Plan covers the eight year period 2004 2011 This strategy oriented publication gives a broad outlook of WMO s priorities and sets out the planned activities of WMO programs T he plan provides guidance to member countries for the formulation of their own development plans in meteorology hydrology and related environmental fields including their applications It includes a detailed plan for the first four years For the second four years the plan provides further guidance and describes prospects for the future Publisher s description *Airbus A350 - Systems Guide for Pilots* Faraz Sheikh,2022-02-22 This is a systems guide for Pilots training or transitioning onto the Airbus A350 series aircraft It covers various aircraft systems with detailed images for you and information for training The 24 chapters included include 1 General 2 Air systems 3 Automatic flight systems 4 Flight management system 5 Communications 6 Electrical system 7 Fire Smoke protections 8 Flight Controls and Slats Flaps 9 Fuel system 10 Hydraulic system 11 Ice rain protection 12 Controls display systems 13 Recording systems 14 Landing Gear 15 Lights 16 Navigation 17 Oxygen system 18 Avionics network IMA 19 Onboard maintenance system 20 Information systems 21 Air traffic control communication systems 22 APU 23 Doors 24 Engines The book is for training purposes ONLY NOT FOR OPERATIONAL USE *AIRBUS A320 Systems* Facundo Conforti,2019-06-19 Welcome to the most advanced version of the HDIW collection In this seventh edition we will know all the systems of one of the most sold and flown commercial aircraft in the world commercial aviation we will know everything about the fabulous Airbus 320 We will learn the 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 seventh edition of the most prestigious collection in Latin America promises to mark a before and after in the way of learning the systems of an airplane which complex as it may seem is as simple and entertaining as any other aircraft Studying an air plane has never been so easy and entertaining as before and from the hand of HDIW you will discover that everything is possible to learn if it is explained in

the right way Welcome to the Professional Aviation Welcome to HDIW **A Decade of Progress** Godwin Olu Patrick Obasi, World Meteorological Organization, 2003 This book describes the main WMO activities in the 1990s and the link up with the new century and summarizes the achievements in the WMO programs set out in the WMO long term plans which were approved by the Eleventh Twelfth and Thirteenth World Meteorological Congresses in 1991 1995 and 1999 Publisher s description **The Wall Street Journal** ,2000 □□□□□□□□ ,1999 [Airbus A320 Encyclopedia](#) Facundo Conforti, 2022-03-07 In a constantly growing aeronautical industry the demand for professional pilots is increasing Year after year thousands of applicants come to the airlines looking for a job but only a small fraction of them get the job and of that small fraction only a very select group are the pilots who manage to develop their professional careers in a company The other pilots don t get achieve their goals for different reasons one of them is the lack of knowledge that leads them to face challenges that they cannot overcome In this guide we will try to provide each reader with the necessary tools to learn all the most relevant aspects of one of the most flying commercial aircraft in the world A complete guide that covers the knowledge of all the aircraft s systems the Airbus flight philosophy and a complete analysis of the operation of the FMS flight system where the reader will learn to operate the flight computer effectively and in various situations that may occur in real life Finally you will learn all about a normal operation in a complete day as a pilot in command of A320 After learning the contents of this A320 encyclopedia the pilot will arrive at the new job with a solid knowledge of the aircraft he will fly and this will make his learning process within the airline reach the highest academic and professional level **Airbus A320 Crew Manual** Facundo Conforti, 2020-03-11 In this manual you as a pilot will learn about main flight concepts and how the A320 works during normal and abnormal operations This is not a technical manual about systems it s a manual about of flight philosophy This manual is based on the original Airbus manual called The Flight Crew Training Manual which is published as a supplement to the Flight Crew Operating Manual FCOM and is designed to provide pilots with practical information on how to operate the Airbus aircraft It should be read just like a supplement and not for real flight In this case refer to the original FCOM from Airbus Let s start to fly the amazing A320 with our collection of books and re member it s not a technical manual so enjoy it **Airbus A320 Panels. Pilot Handbook** Facundo Conforti, 2024-07-05 The panels of a commercial aircraft often hold an air of mystery for some pilots who wish to marvel at these magnificent feats of aeronautical engineering Understanding the function of each knob button indicator and every part of the aircraft s panels may seem like an almost impossible mission for those who haven t had the chance to take the aircraft s type rating course In this book we ll make it simple and easy This is a book exclusively dedicated to the panels of the fabulous Airbus A320 In each chapter you ll learn about every part of the panels every function and every indication After reading this all it will take is a glance at the cockpit panels of an A320 and you ll understand what you re seeing perfectly This is not a systems manual but a descriptive and analytical guide to each panel of the aircraft It is the perfect complement to the Airbus A320 series which has become the

great success of this collection detailing all the aircraft's systems and procedures in depth Here you will learn all the sections of the overhead panel main flight panels pedestal panel and much more **Airbus A320 Systems Description** Biblioteca Aeronáutica,2024-09-13 The objective of this book is to bring each reader to the systems of an A320 to study their normal operation and to understand what is happening in the airplane while it is operated by the pilots from the cockpit We will begin with the generalities of the airplane then we will continue to advance through their systems starting from the simplest to finishing in the most complex It should be noted that in this manual we 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 **Airbus A320** Facundo Conforti,2019-10-09 Welcome to the most advanced version of the HDIW collection In this seventh edition we will know all the systems of one of the most sold and flown commercial aircraft in the world commercial aviation we will know everything about the fabulous Airbus 320 We will learn the 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 seventh edition of the most prestigious collection in Latin America promises to mark a before and after in the way of learning the systems of an airplane which complex as it may seem is as simple and entertaining as any other aircraft Studying an airplane has never been so easy and entertaining as before and from the hand of HDIW you will discover that everything is possible to learn if it is explained in the right way Welcome to the Professional Aviation Welcome to HDIW

**A320 Easy** Valerio Francati,2020-10 A320 Easy is a study guide for A318 A319 A320 and A321 pilots It's an easy manual published in English to review and help you learning the main A320 procedures systems task sharing memory items limitations and the main knowledge for an interview It can also be useful as an aid for type rating course on Airbus A320 Family Interesting facts about A320F General Information Normal Procedures Normal Checklists FMGS Preparation Briefing A320 Systems A320 Engine Types Abnormal Procedures MEL CDL Memory Items Upset Recovery Flight Crew Incapacitation Discontinued Approach Engine Failure During Cruise Electrical Emergency Configuration Emergency Evacuation Emergency Equipment Fuel Leak and Fuel Imbalance Cold Weather and Contaminated Runway Circling Approach Visual Approach General Limitations A320 Easy it's easy *Airbus A320* Facundo Conforti,2020-08-17 Welcome to the most complete manual about the MCDU operations based on the FMS system of the great A320 This manual describes all functions of the MCDU Multi Function Control and Display Unit for Airbus A320 including definitions normal operations and abnormal operations in real flights Learn all about each part of the MCDU each key each function and every detail you need as a pilot After learning the all theory concepts you will learn to operate the MCDU in different flights including domestic flights international flight and abnormal flights with emergencies At the end of this book you will be ready for operating the MCDU like a professional

pilot [The Unofficial Airbus A320 Series Manual \(B/W\)](#) Mike Ray,2014 **AIRBUS A320. Abnormal Operation** Facundo Conforti,2019-10-16 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 **Aircraft Systems** Craig Lawson,David Judt,2025-12-19 In depth reference on fixed wing aircraft electrical and mechanical systems covering electronics hydraulics and other essential components Aircraft Systems delivers comprehensive material on the design and development of fixed wing aircraft electrical and mechanical systems providing broad coverage of aircraft systems including electronics hydraulics pneumatics flight control actuation and landing gear The book features many practical examples of existing commercial and military aircraft Academic design studies and methods are presented along with information on technical and mathematical methods of design The book also features design guides for each system including equations where appropriate to size sub systems and major components and discusses environmental concerns Topics discussed in Aircraft Systems include Aircraft systems design philosophy and safety covering systems design approaches safety assessments requirement captures and component reliability Secondary power sources including main engines auxiliary and ground power units batteries ram air turbines and fuel cells Hydraulic system components covering hydraulic fluids pumps and piping reservoirs filters accumulators and relief valves Aircraft icing and rain protection covering ice protection systems such as electro impulse de icing and chemical ice protection systems Aircraft Systems is an essential resource for undergraduate and postgraduate students studying the design of fixed wing aircraft systems The book is also valuable to professionals in aerospace engineering due to its broad view of aircraft systems development and integration **Airbus A320 Crew Manual** Biblioteca Aeronáutica,2024-09-13 In this manual you as a pilot will learn about main flight concepts and how the A320 works during normal and abnormal operations This is not a technical manual about systems it s a manual about of flight philosophy This manual is based on the original Airbus manual called The Flight Crew Training Manual which is published as a supplement to the Flight Crew Operating Manual FCOM and is designed to provide pilots with practical information on how to operate the Airbus aircraft It should be read just like a supplement and not for real flight In this case refer to the original FCOM from Airbus Let s start to fly the amazing A320 with our collection of books and remember it s not a technical manual so enjoy it

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