

BLEED

CAUTION, do not use HP GND air with APU bleed

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

AVIONICS VENTILATION

CONFIGURATIONS:
CLOSED: on GND (max 45°C in FLT (max 52°C/35°C)
INTERMEDIATE: if (max 32°C/35°C) then EXTRACT VLV partially opens
- OPEN: on GND (max 45°C/35°C)
- SMOKE CONFIG

FAN SPD (NOM JLP-S)
H if T > 40°C
LO if T > 35°C



APU

LIMITATIONS:
RPM max: 95%, max 102% (auto shut down)
running EGT max 660°C (Basic) or 750-742
start EGT max 900°C > 25000R
start EGT max 950°C > 25000R
LOW OIL LEVEL: < 15 lbs APU max
start cycles: 5, then 5, then 5, 60min
Envelope:
START with AC power up to 30000R
START with EMER BLEED start up to 25000R
BLEED ON 2 packs max 15000R, 1 pack max 20000R
BLEED ON for engine start max 20000R
BLEED for WING ANTI ICE not permitted
APU FUEL FLOW ~ 130 kg/hr



FUEL A319/A320

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

OUTER to INNER TRANSFER
- XFR valves open when (POWER) lower ~ 750kg
- F/O only with Outer TK full
- Automatic XFR after landing
(in event, master REFUEL panel PWR ON)
or transfer via DEFUEL/XFR valve

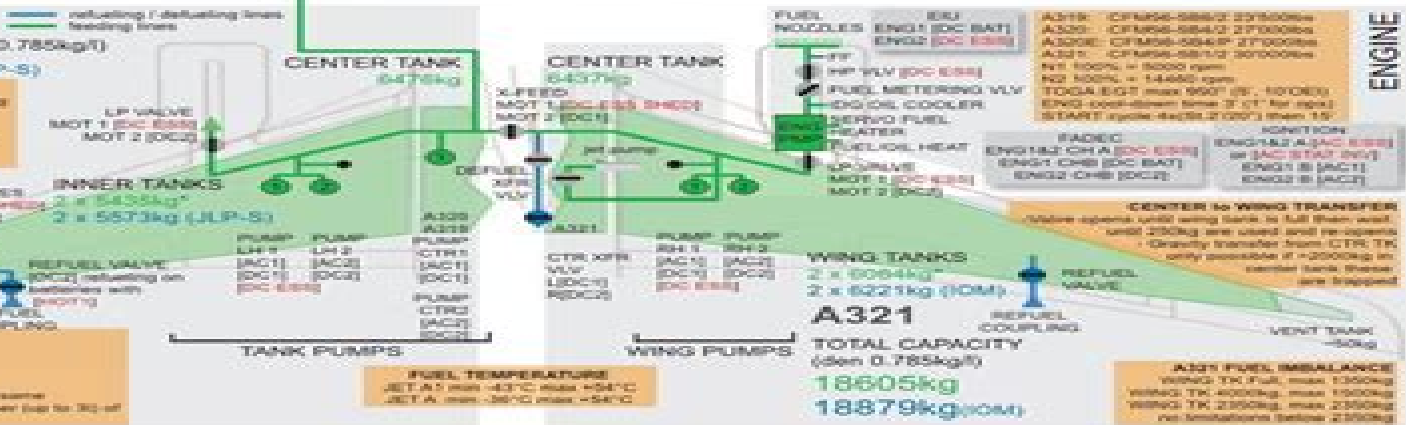
FOR CH1 [DC ESS SHED] CH2 [DC]

OUTER TANKS 2 x 5533kg

REFUEL VALVE [DC] refueling on batteries with (ignoring)

REFUEL COUPLING

FUEL IMBALANCE A319/A320
WING TK Fuel max 1500kg
INNER TK 4300kg max 1500kg
INNER TK 2350kg max 2350kg
no limitations below 2350kg
OUTER TK max 500kg, if OUTER+INNER same
or (WING) of empty OUTER equal or higher (up to 30 of
opposite INNER)

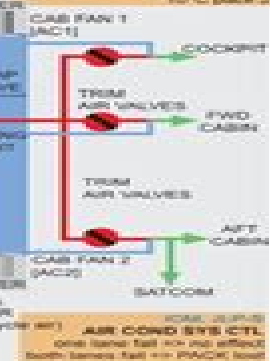


CAUTION, do not use GND AIRCOND air with air from packs simultaneously

PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
PACK 1 FLOW CONTROL VALVE [DC ESS SHED]

AIRCOND

PACK CTL
From fail => eng. not recommended
Both fail => ECAM signal lost
Both fail => 5-30°C in A
for active vlv
ECAM CTL
From fail => 24°C for packs
Both fail => no effect
Both fail => 20°C pack 1
10°C pack 2



PRESSURIZATION

2 safety valves (press 8.5psi or ~ 25psi)
- FAN AIR ON and JLP-S, outfl. vlv 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

APU (NOM JLP-S)
Depressurization in case of residual press on GND

FIRE PROTECTION & CARGO VENT

★ SMOKE DETECTORS
★ FIRE DETECTORS
★ FIREX 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 STL 1 [DC BATT] 1 [DC BATT] 1 [DC BATT]
ENG 1/2 STL 2 [DC BATT] 2 [DC BATT] 2 [DC BATT]
APU STL [DC BATT] 1 [DC BATT] 1 [DC BATT]
APU STL [DC BATT] 2 [DC BATT] 2 [DC BATT]
APU STL [DC BATT] 3 [DC BATT] 3 [DC BATT]

ENGINE

A319: CFM56-5B42 237000RPM
A320: CFM56-5B42 270000RPM
A321: CFM56-5B42 270000RPM
N1 100% = 3000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 1700°C
ENG cool-down time 2' 0" for N2
START (idle) 45-55°C/200' then 15'

RADIAC
ENG1/2 CH A [DC ESS]
ENG1/2 CH B [DC BATT]
ENG2 CH B [DC2]

IGNITION
ENG1/2 A [DC ESS]
or [AC STAT] 1/2
ENG1 B [ACT]
ENG2 B [ACT]

CENTER to WING TRANSFER
- Valve opens with wing tanks full then exp.
used 250kg are used and re-opens
- Gravity transfer from CTR TK
only possible if > 2000kg in
center tank, these are trapped

A321 FUEL IMBALANCE
WING TK Fuel max 1300kg
WING TK 4000kg max 1500kg
WING TK 2350kg max 2350kg
no limitations below 2350kg

Airbus A320 Systems Guide

Facundo Conforti

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Airbus A320 Systems 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 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

Handbook of Human-Machine Systems Giancarlo Fortino,David Kaber,Andreas Nürnberger,David Mendonça,2023-07-25 Handbook of Human Machine Systems Insightful and cutting edge discussions of recent developments in human machine systems In Handbook of Human Machine Systems a team of distinguished researchers delivers a comprehensive exploration of human machine systems HMS research and development from a variety of illuminating perspectives The book offers a big picture look at state of the art research and technology in the area of HMS Contributing authors cover Brain Machine Interfaces and Systems including assistive technologies like devices used to improve locomotion They also discuss advances in the scientific and engineering foundations of Collaborative Intelligent Systems and Applications Companion technology which combines trans disciplinary research in fields like computer science AI and cognitive science is explored alongside the applications of human cognition in intelligent and artificially intelligent system designs human factors engineering and various aspects of interactive and wearable computers and systems The book also includes A thorough introduction to human machine systems via the use of emblematic use cases as well as discussions of potential future research challenges Comprehensive explorations of hybrid technologies which focus on transversal aspects of human machine systems Practical discussions of human machine cooperation principles and methods for the design and evaluation of a brain computer interface Perfect for academic and technical researchers with an interest in HMS Handbook of Human Machine Systems will also earn a place in the libraries of technical professionals practicing in areas including computer science artificial intelligence cognitive science engineering psychology and neurobiology

System-Ergonomic Design of Cognitive Automation Reiner Onken,Axel Schulte,2010-01-06 Why this book Simply because it is due Cognitive automation and its system ergonomic introduction into work systems have been advanced in the meantime to such a degree that already applications for operational work systems are slowly becoming reality This book shall contribute to give system designers some more guidelines about designing work systems and associated cognitive machines effectively in particular those related to guidance and control of manned and unmanned vehicles The issue is that the findings on cognition have to become sufficient commonsense for all from the various disciplines involved in system

design and that guidelines are given how to make use of it in an appropriate and systematic manner These guidelines are to account for both the needs of the human operator in the work process and the use of computational potentials to make the work system a really most effective one In other words this book is meant to provide guidelines for the organisational and technical design of work systems Therefore this book is an interdisciplinary one Findings in individual disciplines are not the main issue It is rather the combination of these findings for the sake of the performance of work systems which makes this book a useful one for designers who are interested in this modern approach and its implementation **Aircraft**

Systems Facundo Conforti, Competition between the main aircraft manufacturers is becoming fiercer every day When a manufacturer develops an improvement in one of the systems of its aircraft the competition is attentive to improving those developments throughout its fleet The truth is that aircraft systems respond to the same principle of operation and large manufacturers know it There are things that simply can't be improved because they are almost perfect In these cases it is a matter of changing the appearance of aircraft systems to offer a different product to the market In this work you will know the principle of operation of all the systems of a commercial aircraft and of course their different appearances depending on each of the main manufacturers of commercial aircraft in the world Airbus and Boeing A work that invites you to learn how the main systems of two of the world's flying commercial aircraft the fabulous Airbus 320 and the magnificent Boeing B737 work Learning how an airplane's systems work is just the beginning the next step is this work to compare the systems between these two incredible aircraft At the end of this reading you will know the working principle of the systems of an A320 and a B737 perfectly **Handbook of Aviation Neuropsychology** Robert Bor, Carina Eriksen, Randy J.

Georgemiller, Alastair L. Gray, 2024-11-11 The field of aviation neuropsychology helps us to understand and improve human performance and safety in the aerospace industry both for the estimated 300 000 commercial pilots and the 4.5 billion passengers they transport every year This handbook brings together a group of internationally renowned academic and industry experts to provide a comprehensive overview of the background goals principles challenges and associated practice skills and research themes of aviation neuropsychology After an introduction to the history and development of aviation psychology additional sections focus on the importance of prevention and resilience to enhance airline workers cognitive and mental functioning to reduce the risk of human errors and accidents as well as the different aspects of assessment including pilot medical certification neuropsychological testing and cultural considerations Additional chapters explore how we can learn from past errors and build on existing strengths Finally special aspects are examined including the role of different common conditions e.g. neurological and psychological disorders and report writing in aviation Readers will find the book full of unique insights theory and research giving them a comprehensive overview of the field While the book is designed primarily for health care professionals neuropsychologists clinical psychologists aviation psychologists aviation medical examiners neurologists and flight safety specialists it will be of interest to other professionals inside and outside of aviation

including professionals in other safety critical settings or researchers looking to improve safety in the aviation industry

Verification and Validation of Complex Systems: Human Factors Issues John A. Wise, V. David Hopkin, Paul Stager, 2013-06-29 Despite its increasing importance the verification and validation of the human machine interface is perhaps the most overlooked aspect of system development Although much has been written about the design and development process very little organized information is available on how to verify and validate highly complex and highly coupled dynamic systems Inability to evaluate such systems adequately may become the limiting factor in our ability to employ systems that our technology and knowledge allow us to design This volume based on a NATO Advanced Science Institute held in 1992 is designed to provide guidance for the verification and validation of all highly complex and coupled systems Air traffic control is used as an example to ensure that the theory is described in terms that will allow its implementation but the results can be applied to all complex and coupled systems The volume presents the knowledge and theory in a format that will allow readers from a wide variety of backgrounds to apply it to the systems for which they are responsible The emphasis is on domains where significant advances have been made in the methods of identifying potential problems and in new testing methods and tools Also emphasized are techniques to identify the assumptions on which a system is built and to spot their weaknesses

Software and System Safety Terry L. Hardy, 2012 System safety is a widely accepted management and engineering approach to analyze and address risks in complex systems in order to prevent accidents Because software and computing systems are integral to most systems software safety has become a critical component of an overall system safety effort Software and System Safety discusses critical elements of the discipline of system safety and shows how software and computing systems fit in the system safety process Software specific aspects of the system safety process are addressed to show concerns common to complex systems The many accidents and incidents presented in this book illustrate important lessons learned and show how software related hazards can be misidentified software risks can be improperly assessed hazard controls may be misapplied and software and system testing may not effectively verify that the risk had been reduced The lessons learned come from a variety of industries and organizations and include the author's personal experience The real world lessons provided in this book can be used to improve existing software safety and system safety efforts and can help when planning new system safety programs

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

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AI Governance Handbook Sunil Gregory, Anindya Sircar, 2025-09-15 Enterprise AI represents a transformative moment in technology empowering businesses to unlock the potential of data automation and advanced analytics It drives innovation streamlines operations and amplifies competitiveness in an increasingly digital economy Yet as promising as this technology is adopting Enterprise AI is no simple feat It demands a strategic alignment of AI initiatives with organizational goals while addressing many complex risks and challenges Businesses face a new frontier of operational dilemmas from algorithmic bias and data privacy concerns to the legal and ethical quandaries of AI generated content Questions of accountability for AI actions intellectual property rights and the threat of data laundering or AI hallucinations further complicate the landscape Amid these challenges enterprises are tasked with navigating a pre regulatory era where global authorities are racing to establish policies and frameworks for a trustworthy and lawful AI ecosystem The AI Governance Handbook is a comprehensive guide tailored for stakeholders at the forefront of AI adoption executives managers data scientists engineers and compliance professionals This essential resource provides the knowledge tools and strategies to lead organizations through the complexities of implementing AI responsibly and effectively Packed with actionable insights the handbook explores critical topics such as aligning AI strategies with organizational objectives managing ethical dilemmas adhering to emerging regulations and fostering transparency in AI operations It offers readers a roadmap to build a resilient and dependable AI framework prioritizing fairness accountability and innovation

Aircraft Finance Bijan Vasigh, Reza Taleghani, Darryl Jenkins, 2012-06-15 This title presents a flexible valuation and decision making tool for financial planners airlines lease companies bankers insurance companies and aircraft manufacturers

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