

BLEED

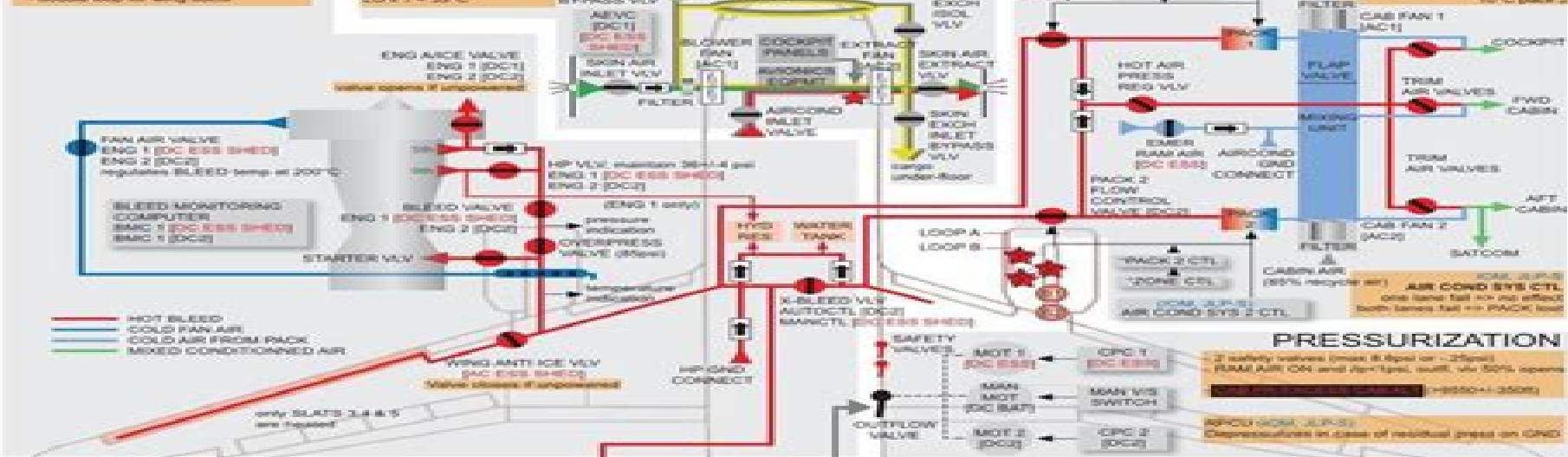
CAUTION, do not use HP GND air with APU bleed

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 100% (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 open up to 25000R
BLEED ON 2 packs max 15000R, 1 pack max 20000R
BLEED ON for engine start max 20000R
BLEED for WING AICE not permitted
APU FUEL FLOW ~ 130 kg/hr



FUEL A319/A320

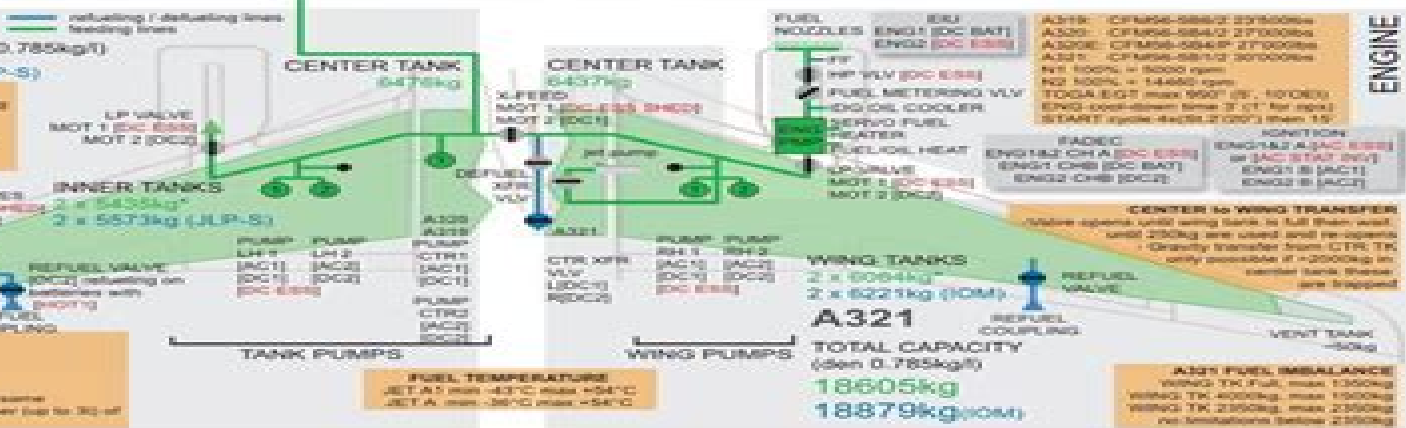
TOTAL TANKS CAPACITY (den 0.785kg/l)
18728kg / 19004kg (JLP-S)

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 5534kg

FUEL IMBALANCE A319/A320
WING TK Fuel max 15000kg
INNER TK 4300kg max 15000kg
INNER TK 2350kg max 2350kg
no limitations below 2350kg
OUTER TK max 5000kg, 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
ENGINE 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)
- FUEL AIR ON and JLP-S, outfl. vlv 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

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 [DC2]
APU loop A & B [DC BAT]
ENG 1/2 STL 1 [ENG 1/2 STL 1] equals B [HOT IT]
ENG 1/2 STL 2 [ENG 1/2 STL 2] equals B [DC2]
APU STL equals A [HOT IT] equals B [DC BAT]
APU auto extinguish [DC BAT]

ENGINE

A319: CFM56-5B/2 23500RPM
A320: CFM56-5B/2 27000RPM
A321: CFM56-5B/2 27000RPM
N1 100% = 3000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 1700°C
ENG cool-down time 2° C / for 100s
START (idle) 400s 200° then 15°

RADIC ENG1/2 CH A [DC ESS] ENG1/2 CH B [DC BAT]
ENG1/2 CH B [DC BAT]
ENG1/2 CH B [DC BAT]

CENTER to WING TRANSFER
- Valve opens with wing tanks full then wing tank 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 13500kg
WING TK 4000kg max 15000kg
WING TK 2350kg max 2350kg
no limitations below 2350kg

The Airbus 32technical Guide

**United States. Congress. Office of
Technology Assessment**



The Airbus 32technical Guide:

Introduction to Synthetic Aperture Radar Using Python and MATLAB® Lee Andrew (Andy) Harrison, 2022-08-31 This comprehensive introduction to synthetic aperture radar SAR is a practical guide to the analysis simulation and design of SAR systems The video eBook uses constructive examples and real world collected datasets to demonstrate image registration and autofocus methods Both two and three dimensional image formation algorithms are presented Hardware software and environmental parameters are used to estimate performance limits for SAR operation and utilization A set of Python and MATLAB software tools is included and provides you with an effective mechanism to analyze and predict SAR performance for various imaging scenarios and applications Examples which use the software tools are provided at the end of each chapter to reinforce critical SAR imaging topics such as clutter to noise ratio mapping rate spatial resolution Doppler bandwidth pulse repetition frequency and coherency This is an excellent resource for engineering professionals working in areas of radar signal processing and imaging as well as students interested in studying SAR

Risk Management Series: Risk Assessment - A How-To Guide to Mitigate Potential Terrorist Attacks Against Buildings Federal Emergency Agency, U. S. Department Security, 2013-01-26 The Federal Emergency Management Agency FEMA developed this Risk Assessment A How To Guide to Mitigate Potential Terrorist Attacks Against Buildings to provide a clear flexible and comprehensive methodology to prepare a risk assessment The intended audience includes the building sciences community of architects and engineers working for private institutions building owners operators managers and State and local government officials working in the building sciences community The objective of this How To Guide is to outline methods for identifying the critical assets and functions within buildings determining the threats to those assets and assessing the vulnerabilities associated with those threats Based on those considerations the methods presented in this How To Guide provide a means to assess the risk to the assets and to make risk based decisions on how to mitigate those risks The scope of the methods includes reducing physical damage to structural and non structural components of buildings and related infrastructure and reducing resultant casualties during conventional bomb attacks as well as chemical biological and radiological CBR agents This document is written as a How To Guide It presents five steps and multiple tasks within each step that will lead you through a process for conducting a risk assessment and selecting mitigation options It discusses what information is required to conduct a risk assessment how and where to obtain it and how to use it to calculate a risk score against each selected threat This is one of a series of publications that address security issues in high population private sector buildings This document is a companion to the Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings FEMA 426 and the Building Design for Homeland Security Training Course FEMA E155 This document also leverages information contained within the Primer for Design of Commercial Buildings to Mitigate Terrorist Attacks FEMA 427 The primary use of this risk assessment methodology is for buildings although it could be adapted for other types of critical infrastructure The foundation of the risk assessment

methodology presented in this document is based on the approach that was developed for the Department of Veterans Affairs VA through the National Institute for Building Sciences NIBS Over 150 buildings have been successfully assessed using this technique The risk assessment methodology presented in this publication has been refined by FEMA for this audience The purpose of this How To Guide is to provide a methodology for risk assessment to the building sciences community working for private institutions It is up to the decision makers to decide which types of threats they wish to protect against and which mitigation options are feasible and cost effective This How To Guide views as critical that a team created to assess a particular building will be composed of professionals capable of evaluating different parts of the building They should be senior individuals who have a breadth and depth of experience in the areas of civil electrical and mechanical engineering architecture site planning and security engineering and how security and antiterrorism considerations affect site and building design

Civil Airliner Flight Guidance Technology for Four-Dimensional Trajectory-Based Operation Guangwen Li, Shaobo Zhai, Qiuling Jia, 2024-09-16 This book focuses on achieving precision guidance and timely arrival in flight The content comprehensively describes the civil aircraft flight guidance technology for four dimensional trajectory based operation The main content of this book is the summary of the author's team's research work on flight management systems and flight guidance technology over the past decade including flight plan analysis and transition path construction four dimensional trajectory planning and re planning high precision flight guidance commands calculation FMS landing system etc The theoretical methods described in the book have been verified by pre research and practical engineering projects which are of great theoretical significance and engineering application value This book is used as a reference for engineers engaged in flight control flight guidance and flight management research as well as Masters and Ph Ds in related disciplines

Commercial Pilot Ground School Manual David L. Parry, Theory knowledge required for Commercial Pilots in Canada and prepares for the written examination *Economics of the U.S. Commercial Airline Industry: Productivity, Technology and Deregulation* Ivan L. Pitt, John Randolph Norsworthy, 2012-12-06 Economics of the U S Commercial Airline Industry Productivity Technology and Deregulation illustrates the impact of upstream technological change in capital goods aircraft and aircraft engines on demand productivity and cost reduction in the U S airline industry for the years 1970 1992 The aim is to separate supply side technology push from demand pull in determining investment in aircraft in the US airline industry The focus of inquiry in this study is at the company level so the measures are sensitive to company differences such as financial costs payload and existing aircraft inventory rather than industry averages This monograph builds on the new developments in econometric modeling and has a substantial technical component The quantitative results lead to implications for understanding technology and its impact on the airline industry as well as for formulating regulatory policy

Care and Repair of Advanced Composites Keith B Armstrong, William Cole, Eric Chesmar, Francois Museux, 2020-12-31 The new edition of the well known Care and Repair of Advanced Composites 3rd Edition improves on the usefulness of this

practical guide geared towards the aerospace industry Keith B Armstrong the original lead author of the first edition was still in charge of this project counting on the expert support of Eric Chesmar senior composites specialist at United Airlines Mr Chesmar is also an active member of SAE International's CACRC Commercial Aircraft Composite Repair Committee an elite group of industry experts dedicated to the standardization safety security and efficiency of composite repairs in the airline industry Mr Francois Museux Airbus and Mr William F Cole II also contributed Care and Repair of Advanced Composites 3rd Edition presents a fully updated approach to the training syllabus recommended for repair design engineers and composite repair mechanics Metal bonding has been included partly because the definition of composite can be interpreted to include metal skinned honeycomb panels and partly because some composite parts have metal fittings or reinforcements that must be treated before bonding This third edition also covers a number of the problems experienced in service some of which may be applicable to metallic sandwich panels offers suggestions for design improvements including repair design as a particular topic and regulatory changes Care and Repair of Advanced Composites 3rd Edition provides solid technical information and training for a wide range of airline staff

Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace Vehicles Ali Zolghadri, David Henry, Jérôme Cieslak, Denis Efimov, Philippe Goupil, 2013-10-07 Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace demonstrates the attractive potential of recent developments in control for resolving such issues as flight performance self protection and extended life structures Importantly the text deals with a number of practically significant considerations tuning complexity of design real time capability evaluation of worst case performance robustness in harsh environments and extensibility when development or adaptation is required Coverage of such issues helps to draw the advanced concepts arising from academic research back towards the technological concerns of industry Initial coverage of basic definitions and ideas and a literature review gives way to a treatment of electrical flight control system failures oscillatory failure runaway and jamming Advanced fault detection and diagnosis for linear and linear parameter varying systems are described Lastly recovery strategies appropriate to remaining actuator sensor communications resources are developed The authors exploit experience gained in research collaboration with academic and major industrial partners to validate advanced fault diagnosis and fault tolerant control techniques with realistic benchmarks or real world aeronautical and space systems Consequently the results presented in Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace will be of interest in both academic and aerospace industrial milieux

Commercial Aviation and Cyber Security Kirsten M Koepsel, 2016-12-22 As cyber attacks become more frequent at all levels the commercial aviation industry is gearing up to respond accordingly Commercial Aviation and Cyber Security A Critical Intersection is a timely contribution to those responsible for keeping aircraft and infrastructure safe It covers areas of vital interest such as aircraft communications next gen air transportation systems the impact of the Internet of Things IoT regulations the efforts being developed by the Federal Aviation Administration FAA and other regulatory bodies The book

also collects important information on the best practices already adopted by other industries such as utilities defense and the National Highway Traffic Safety Administration in the US It equally addresses risk management response plans to cyber attacks managing supply chains and their cyber security flaws personnel training and the sharing of information among industry players Commercial Aviation and Cyber Security A Critical Intersection looks at possible future scenarios and how to respond to ever growing cyber threats how standards development will help combat this issue listing the recommendations proposed by international agencies

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include

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Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement

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Springer Handbook of Automation

Shimon Y. Nof, 2023-06-16. This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.

Research Handbook on Trade Wars Zeng, Ka, Liang, Wei, 2022-07-08. The Research Handbook on Trade Wars presents an informative and in-depth account of the origins, dynamics and implications of trade wars which are growing both in scale and scope in today's increasingly interdependent global economy. Providing the frameworks necessary for understanding the political and economic logics of trade wars, this Handbook will be a valuable source of reference for researchers, government officials, businesses and post-graduate students interested in international political economy, international economics, economic statecraft, public policy and international relations.

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