

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 system: 5, 10 min 5, 10 min 5, 10 min
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

ELECTRONIC CONTROL BOX (ECB)
APU STARTER (SATS)
APU LP VALV (DOC BAT)
APU PUMP (DOC BAT)

FUEL A319/A320

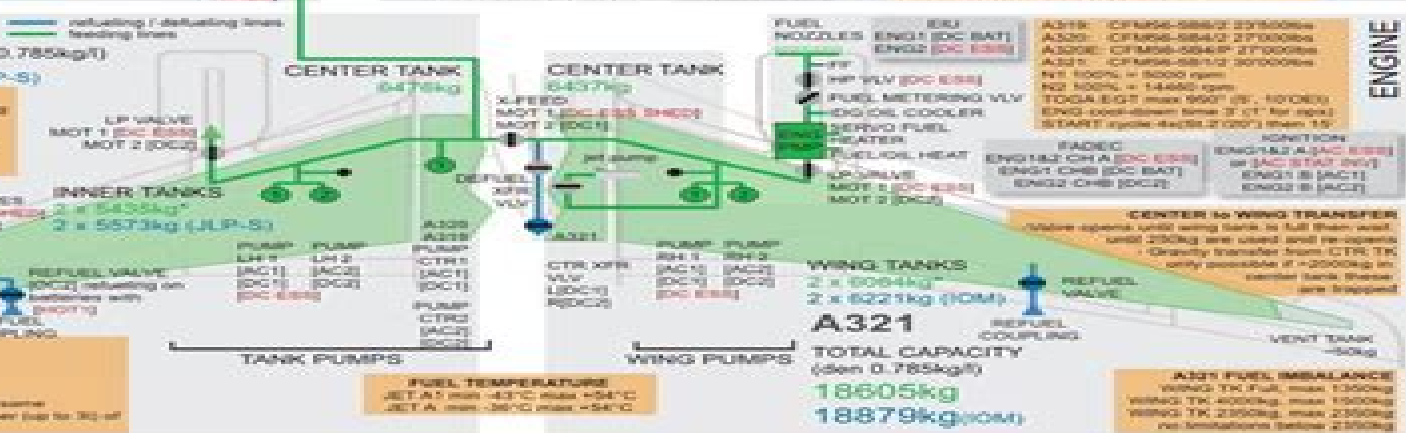
TOTAL TANKS CAPACITY (den 0.785kg/l)
18728kg / 19004kg (JLP-S)

OUTER to INNER TRANSFER
- XFR valves open when (POWER) > 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 (DOC ESS SHED) CH2 (DOC)
FOR CH1 (DOC ESS SHED) CH2 (DOC)

OUTER TANKS 2 x 5534kg
REFUEL VALVE (DOC) refueling on batteries with (ignoring)
REFUEL COUPLING

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)

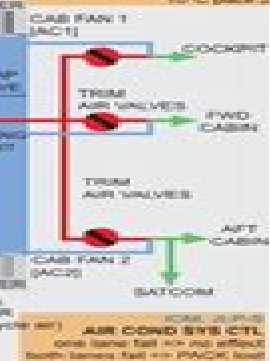


CAUTION, do not use GND AIRCOND air with air from packs simultaneously

PACK 1 FLOW CONTROL VALVE (DOC ESS SHED)
PACK 2 FLOW CONTROL VALVE (DOC)
AIR COND SYS 1 CTL
AIR COND SYS 2 CTL

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 1st stage, outfl. vlv 50% opens
- 1st stage, outfl. vlv 50% opens
- 1st stage, outfl. vlv 50% opens

FIRE PROTECTION & CARGO VENT

★ SMOKE DETECTORS
★ FIRE DETECTORS
★ FIREX BOTTLES

ELECTRICAL SUPPLY
ENG 1 loop A (DOC ESS), loop B (DOC)
ENG 2 loop A (DOC), loop B (DOC)
APU loop A & B (DOC BAT)
ENG 1/2 STL 1 (loop A & B) (DOC) (DOC)
ENG 1/2 STL 2 (loop A & B) (DOC) (DOC)
APU STL (loop A & B) (DOC) (DOC)
APU auto extinguish (DOC BAT)

A319: CFM56-5B/5C 23500lbs
A320: CFM56-5B/5C 27000lbs
A321: CFM56-5B/5C 30000lbs
N1 100% = 5000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 1700°C
ENG cool-down time 2' 0" for N2
START (idle) 450°C/200' min 15'

RADIAC ENG1/2 CH1 (DOC ESS) CH2 (DOC)
ENG1 CH1 (DOC BAT) ENG2 CH1 (DOC)
ENG1/2 CH1 (DOC ESS) CH2 (DOC)

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

* all others from type

NOT FOR OPERATIONAL USE R-CPH-Michel Gasser, 12.1.2013

Airbus Aircraft Schematic Manual

L Reisser



Airbus Aircraft Schematic Manual:

Introduction to Maintenance, Repair and Overhaul of Aircraft, Engines and Components Shevantha

Weerasekera, 2020-12-29 Introduction to Maintenance Repair and Overhaul of Aircraft Engines and Components brings together the basic aspects of a fundamentally important part of the aerospace industry the one that supports the global technical efforts to keep passenger and cargo planes flying reliably and safely Over time aircraft components and structural parts are subject to environmental effects such as corrosion and other types of material deterioration wear and fatigue Such parts could fail in service and affect the safe operation of the aircraft if the degradation were not detected and addressed in time Regular planned maintenance supports the current and future value of the aircraft by minimizing the physical decline of the aircraft and engines throughout its life Introduction to Maintenance Repair and Overhaul of Aircraft Engines and Components was written by the industry veteran Shevantha K Weerasekera an aerospace engineer with 20 years of aircraft maintenance experience who currently leads the engineering team of a major technical enterprise in the field **Federal**

Register , 2000-01-20 *Life Story of Harley Murray Harmon'S Trials and Tribulations* Harley Murray Harmon, 2014-07-18 This book is an autobiography of Harley Murray Harmon written sequentially throughout his life starting when he was born and ending where he is today 82 years old single and living alone The book is a complete rendition of the life of magic and tragic moments both encountered and performed by the author and performer Harley Murray Harmon It covers his story before and after he began using the computer loaded with Microsofts Windows 8 He just now thought of a trick to be able to use the ancient Word Perfect 9 that he bought before the internet arrived After all genius is being able to make things happen when what one wants to work just doesnt want to work I am now set to begin writing my book I hope to high Heaven that everything will function just like I want it to So lets begin CAE Oxford Aviation Academy - Aircraft General

Knowledge 1 - Aircraft Systems , , **Scientific and Technical Aerospace Reports** , 1989 Proceedings

International Council of the Aeronautical Sciences, 1980 **Industrielles Luftfahrtmanagement** Martin

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in ihrer 2018er Revision werden berücksichtigt Auch die Nähe zur Praxis ist gegeben Sie wird unter anderem gewährleistet durch Neue Grafiken Case Studies Praxis Boxen Das Buch richtet sich vor allem an Praktiker Mitarbeiter und Führungskräfte im industriellen Luftfahrtmanagement sowie an Studierende der Luftfahrttechnik und des Luftverkehrsmanagements Einziges Buch zu diesem Thema auf dem Markt Obwohl dieses Thema in der letzten Zeit besonders auch in der Lehre an Bedeutung gewonnen hat ist dies bislang das einzige Buch welches sich intensiv mit den folgenden Themen des industriellen Luftfahrtmanagements auseinandersetzt Behörden und Organisationen Regelwerke und Zulassungen Entwicklung Maintenance Management Grundlagen des luftfahrttechnischen Produktionsmanagements Herstellung und Instandhaltung Material und Leistungsversorgung Personal Qualitätsmanagement Aircraft Instrumentation and Systems S. Nagabhushana, 2013-12-30 Aircraft Instrumentation and Systems covers broadly the topics for the undergraduate course on Aircraft Instrumentation It includes an introduction to aircraft instruments and systems air data systems and air data computers navigation systems gyroscopic flight instruments engine instruments electronics flight instrument systems safety and warning systems Every effort has been made to update the contents of the book with information on the most recent technology used in modern transport aircraft manufactured by Boeing and Airbus The text is profusely illustrated with block diagrams schematic diagrams and a number of tables as well as a glossary Review questions have been included at the end of each chapter to help with practice and self study The book is intended for both teachers and students especially students of B E M E and students in Instrumentation Technology and Aircraft Engineering It also introduces the subject to practising engineers and readers interested in aircraft instrumentation as well as to the flight crew **Proceedings of the ... Congress of the International Council of the Aeronautical Sciences** International Council of the Aeronautical Sciences. Congress, 1980 **Government Reports Announcements & Index**, 1981 Concise Encyclopedia of Aeronautics & Space Systems M. Pégégrin, W.M. Hollister, 1993-09-08 Very Good No Highlights or Markup all pages are intact Documents International Civil Aviation Organization, 1976 **Principles and Practice of Aviation Psychology** Pamela S. Tsang, Michael A. Vidulich, 2002-08-01 Covering field history and discussing actual modern day pilot actions and tasks the editors of this volume have integrated contributions from leaders in aviation to present psychological principles and research pertinent to the interface between a pilot and the cockpit The book addresses the pilot's cognitive demands capabilities and limitations which have important implications for operator selection and training as well as display control designs in the cockpit It emphasizes scientific methods of achieving this understanding and implies that theories and principles of human behavior are shaped and improved by practical problems and applied studies Introduction to Aerospace Structures and Materials René Alderliesten, 2018-12-12 This book provides an introduction to the discipline of aerospace structures and materials It is the first book to date that includes all relevant aspects of this discipline within a single monologue These aspects range from materials manufacturing and processing techniques to structures design principles and structural

performance including aspects like durability and safety With the purpose of introducing students into the basics of the entire discipline the book presents the subjects broadly and loosely connected adopting either a formal description or an informal walk around type of presentation A key lessons conveyed within this book is the interplay between the exact science and engineering topics like solid material physics and structural analysis and the soft topics that are not easily captured by equations and formulas Safety manufacturability availability and costing are some of these topics that are presented in this book to explain decisions and design solutions within this discipline

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Airbus A300 Gunter Endres,1999 First flown in 1972 Airbus medium range A300 has enjoyed a production run of more than 400 units most of which are still in service throughout the world In fact the European consortiums widebody remains in limited production nearly three decades later This colour history of the prolific jetliner covers an alphabet soup of A300 variants photographed in a variety of liveries from around the globe

Control in the Sky L.F.E. Coombs,2005-03-30 In the first early years of aviation the control systems and instruments found in a typical aircraft cockpit were few and simple but did form the basic pattern of requirements still used today Although pioneering aeroplanes seldom achieved speeds above 100 mph or reached altitudes above 10 000 feet pilots still required reliable information on speed altitude attitude engine condition and compass direction Instruments and controls were designed and positioned for mechanical convenience rather than pilot comfort This situation continued well into the 1930s and then the remarkable increase in aircraft performance created during World War II generated an altogether different working environment for pilots who now had to cope with a multitude of information sources and far more sophisticated control mechanisms Aircraft designers now considered how best to organise cockpits and flight decks to assist the pilot This is the history of how ergonomically designed civil and military aircraft cockpits and flight decks evolved Civil aircraft now regularly fly at transonic speeds at around 35 000 feet and military jets at twice the speed of sound on the edge of space These are demanding environments However modern cockpit technologies with simplified presentation of flight information and finger tip controls have eased pilot s tasks

Aircraft Maintenance & Repair, Eighth Edition Ronald Sterkenburg,Michael J. Kroes,2019-09-13 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Get up to date information on every aspect of aircraft maintenance and prepare for the FAA A P certification exam This trusted textbook covers all of the airframe maintenance and repair topics that students must understand in order to achieve Airframe and Powerplant A P certification as set forth by the FAA s FAR 147 curriculum Fully updated for the latest standards and technologies the book offers detailed discussions of key topics

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Airport Terminals Christopher J. Blow, 2013-10-22 Airport Terminals covers the significance of airport terminals and the politics of design This book is organized into seven parts encompassing 28 chapters that examine the architectural quality of airport terminals The first part highlights the basic terminal design principles including considerations of location size capacity and functional types The subsequent parts consider the taxonomy of aircraft terminal forms and the external landside factors These topics are followed by descriptions of the policies layouts configurations data sheets baggage handling flight information systems signage and fire criteria of airport terminals The final parts look into the external airside factors such as aircraft docking and loading as well as the redevelopment of existing airport terminals This book will be of use to architects engineers and airport terminal managers

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