

BLEED

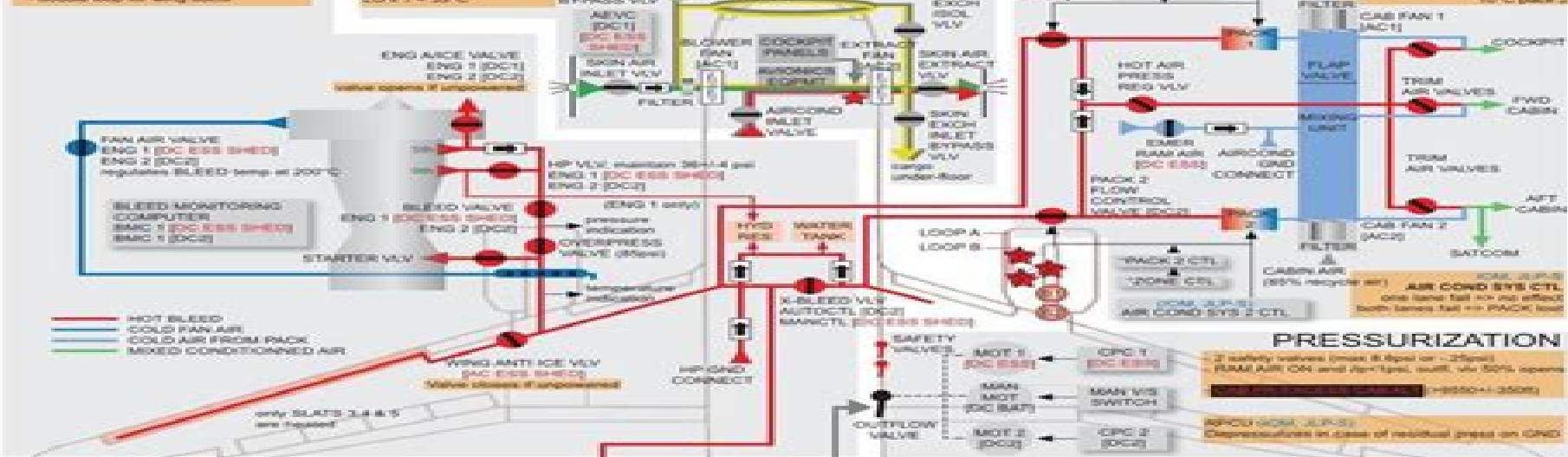
CAUTION, do not use HP GND air with APU bleed

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 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)

refueling / defueling lines
bleeding lines

LP VALVE MOT 1 [DC] MOT 2 [DC]

INNER TANKS 2 x 5435kg* 2 x 5573kg (JLP-S)

PUMP LH1 [AC1] [AC2] [DC1] [DC2]
PUMP LH2 [AC1] [AC2] [DC1] [DC2]
PUMP CTRG [AC2] [DC2]

REFUEL VALVE [DC2] refueling on
batteries with
(ignoring)

REFUEL COUPLING

TANK PUMPS

FUEL TEMPERATURE
JET A1 max -43°C max +54°C
JET A max -36°C max +54°C

CENTER TANK 5437kg

X-FEED MOT 1 [DC] MOT 2 [DC]

DEFUEL XFR VLV

A320 A321

CTR XFR VLV [DC1] [DC2]

WING PUMPS

WING TANKS 2 x 5084kg* 2 x 5221kg (NOM)

A321

TOTAL CAPACITY (den 0.785kg/l)
18605kg
18879kg (NOM)

VENT TANK ~50kg

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

PACK 1 FLOW CONTROL VALVE [DC ESS SHED]
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PACK 2 FLOW CONTROL VALVE [DC2]
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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

PACK CTL
From fail => eng. not recommended
Both fail => ECAM signal lost
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PRESSURIZATION

2 safety valves (press 8.5psi or ~25psi)
- FAN AIR ON and JLP-1, outfl. vlv 50% opens
- PRESSURIZATION ~ 8500ft ~ 3500ft

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

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ENGINE

A319: CFM56-5B/2 25000RPM
A320: CFM56-5B/2 27000RPM
A321: CFM56-5B/2 27000RPM
N1 100% = 3000 rpm
N2 100% = 14400 rpm
TOGA EGT max 950°C / 5° ~ 1000°C
ENG cool-down time 2° C / for 1000°
START cycle 1400/2000° then 15°

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* all others from type

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

Airbus 32test Guide

Airbus Industrie



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Aeronautical Engineering ,1981 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA F & S Index of Corporations and Industries ,1971 **Airbus A319/320 Pilot Upgrade Preparation** Faraz Sheikh,2020-05-27 This book is developed using material and pilot training notes including official Airbus FCOM FCTM and the QRH to allow Pilots to study as a refresher or prepare for their command upgrade It covers failure management ECAM Airbus memory item drills complex and demanding failures technical reviews on systems limitations low visibility procedures RVSM PBN MEL CDL and supplementary information covering cold weather and icing windshears weather and wake turbulence The memory item drills include Loss of braking Emergency descent Stall recovery Stall warning at lift off Unreliable airspeed GPWS EGPWS warnings and cautions TCAS warnings and Windshears The complex and demanding failure chapter goes in depth with failures such as Dual Bleed faults Smoke Fumes cases Dual FMGC failure Engine malfunctions of all levels Fuel leak Dual Hydraulic faults Landing gear problems Rejected takeoff and evacuation Upset preventions and much more Technical revision gives a good study highlight for all the Airbus A320 systems including Air conditioning Ventilation and Pressurisation Electrical Hydraulics Flight Controls and Automation Landing gear Pneumatics etc The later chapters of the book covers useful topics such as aircraft limitations low visibility procedures RVSM PBN MEL CDL and other supplementary information such as cold weather and icing turbulence and windshears in more detail The book will no doubt be a great asset to any trainee or existing Airbus Pilot for both revision and training purposes including refresher training A320 Airbus Industrie,1989 **Flight Test Guide** United States. Flight Standards Service,1968

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