# Einführung Labor Flugzeugsysteme







# Gliederung

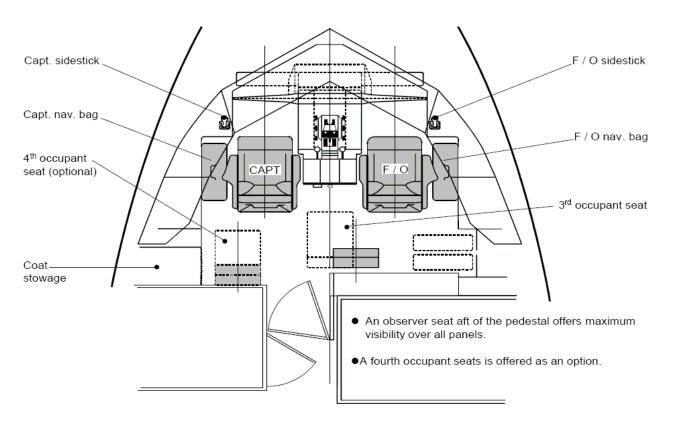
- 1. Einführung in das Cockpit der Airbus Single Aisle
- 2. Systemspezifische Bedienelemente





# 1. Cockpit der Airbus Single Aisle

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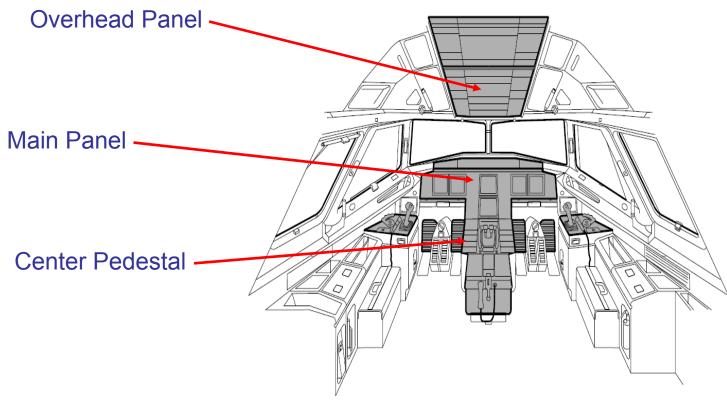






# 1.1 Aufbau des Cockpits

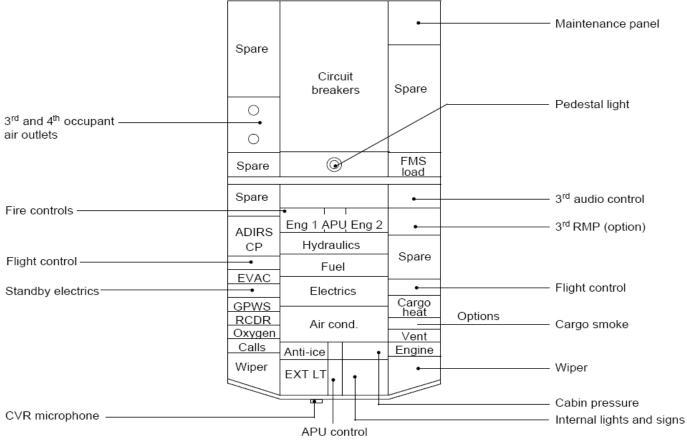
Das Cockpit unterteilt sich in:







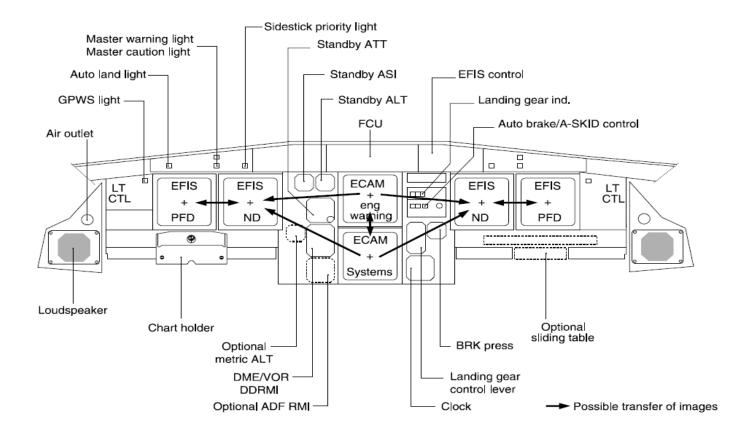
### 1.1.1 Overhead Panel







### 1.1.2 Main Panel

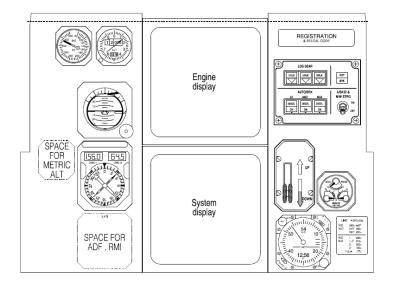






### 1.1.2.1 Detail Main Panel

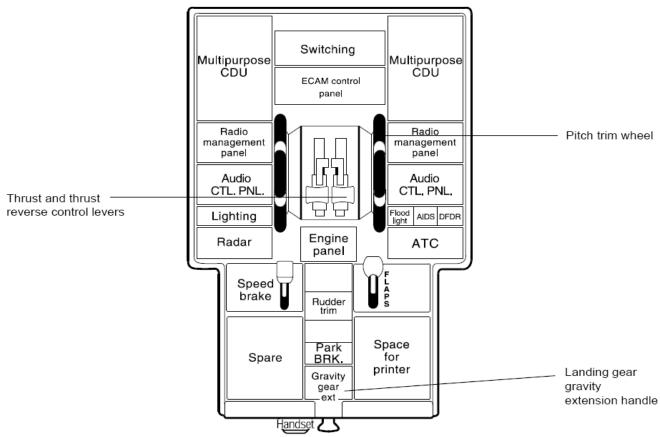
- ECAM Displays im Main Panel
- Anzeige des System Dipslay (SD) wird durch das ECAM Contorol Panel (Electronic Centralized Aircraft Monitoring) im Center Pedestal gesteuert.
- Das E/WD (Engine and Warning Display) hat Vorrang gegenüber dem SD.







### 1.1.3 Center Pedestal



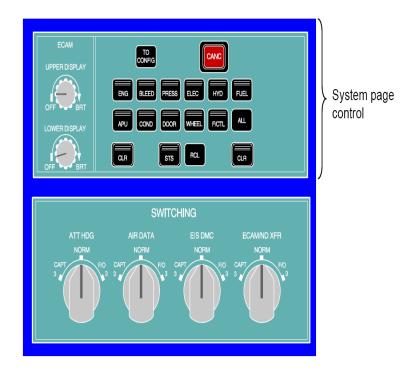




### 1.1.3.1 ECAM Control Panel

- Umschalten der Anzeige des SD durch Druck auf entsprechenden Menüknopf möglich.
- Umsetzen der SD Anzeige auf das NAV Display ist mit den Drehschaltern möglich

**⑤** A319/A320/A321 EIS − ECAM control / switching panels







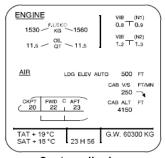
# 2. Systemspezifische Bedienelemente



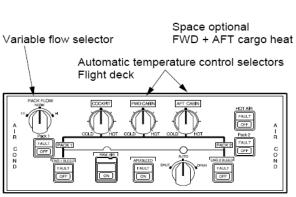


# 2.1 Bleed Air / Air Conditioning

#### S A319/A320/A321 ECS – temperature and flow control

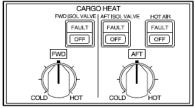


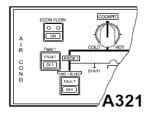
System display : Cruise page

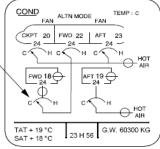


A319/A320

#### Cargo heat - optional

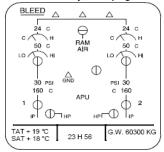






System display: CON system page

#### System display: BLEED system page



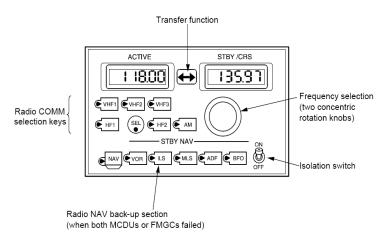




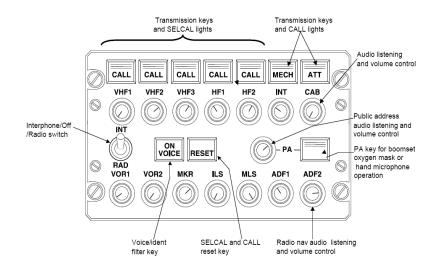
### 2.2 Communication

#### **SA319/A320/A321** radio management concept

#### Radio Management Panel (RMP)



#### **⑤** A319/A320/A321 COMM − audio control panel







### 2.3 Electrical Panel

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# EMER GEN TEST GEN T LINE EMER GEN GROWTH GEN TEST GROW

POSBUSTI BAT 1 BAT 2



Control panel

Fehler in der

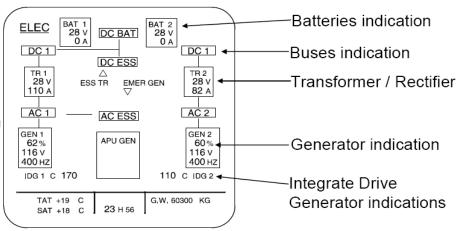
Airbus Unterlage:

On Indication

System display:

ELEC system page

Normal configuration







### 2.3.1 Electrical Circuit Breakers

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 Circuit breakers (C / Bs) are constantly monitored and the tripping of a C / B will be clearly indicated:

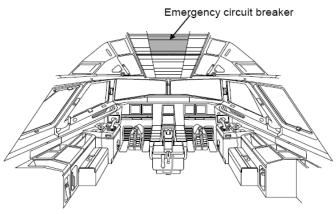
either through

- activation of a system warning
- a failure test
- an abnormal instrument configuration

or, for C / Bs monitored by the ECAM system :

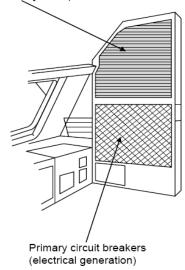
- six zones have been defined
- each time a C / B trips, the corresponding zone is identified

#### Overhead panel



#### Rear right panel

Secondary circuit breakers (aircraft systems)

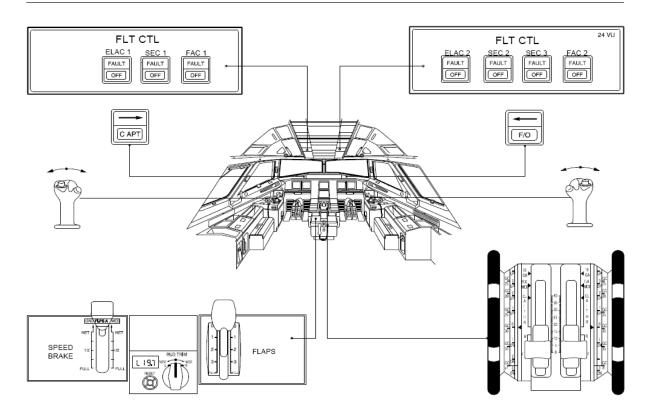






# 2.4 Flight Controls

#### **⑤ A319/A320/A321 EFCS controls**

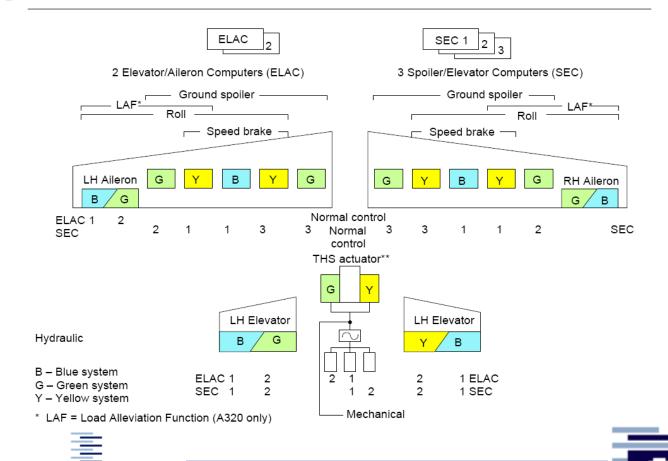






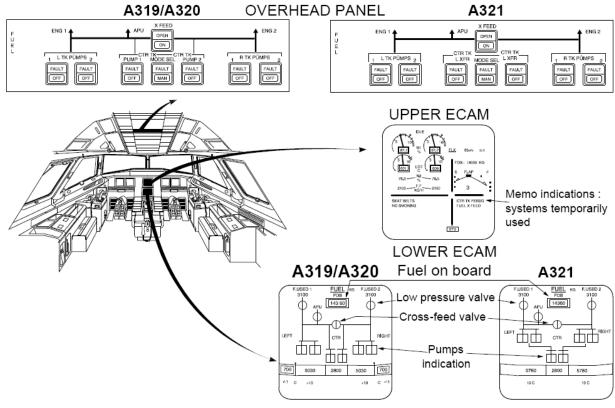
# 2.4.1 Flight Controls Schematics

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### 2.5 Fuel

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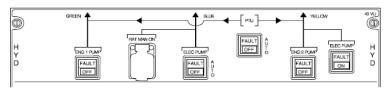


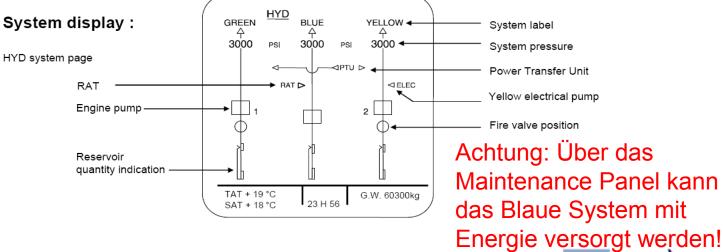


## 2.6 Hydraulics

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Control panel







# 2.7 Engines

