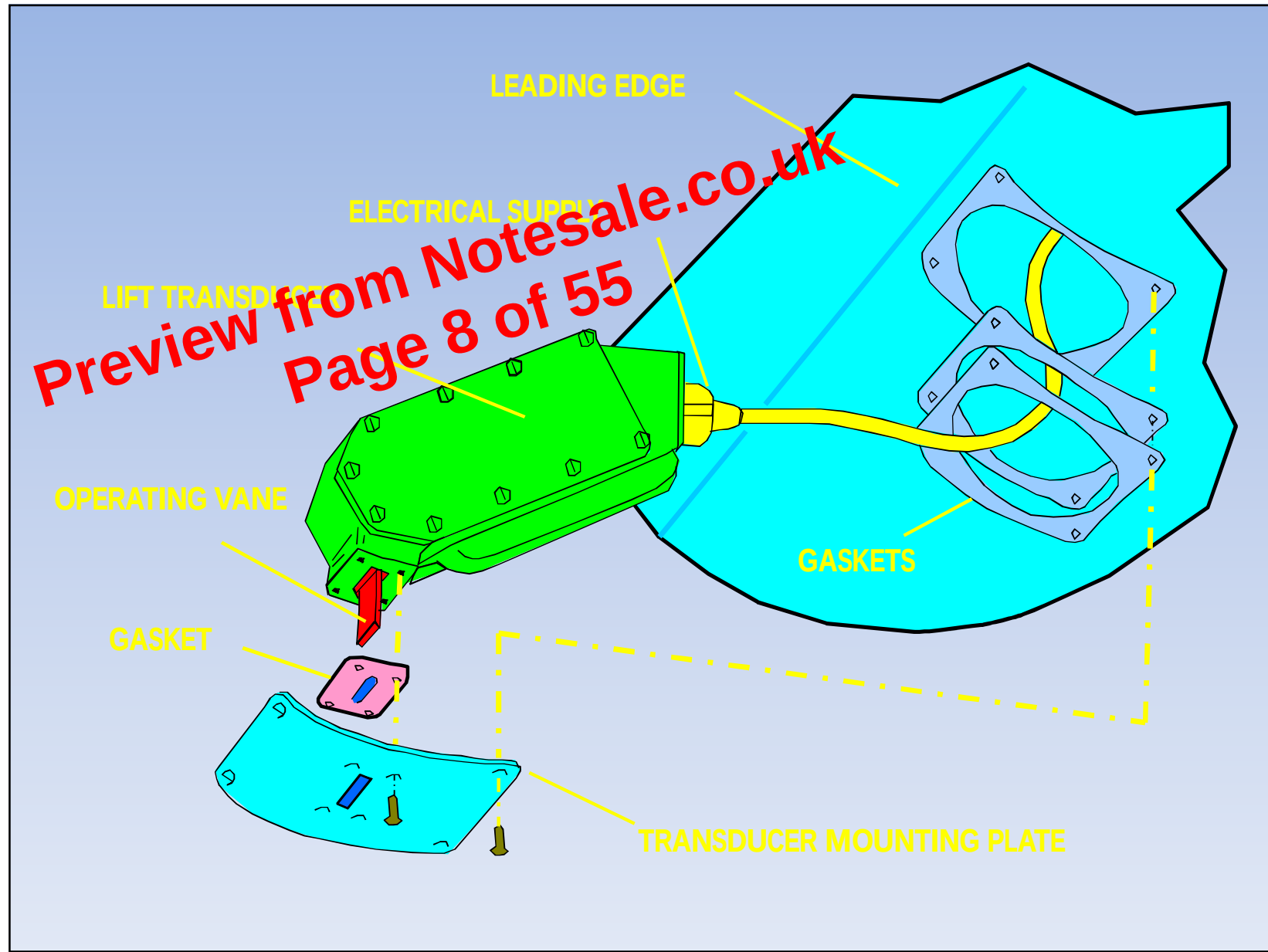




Stall Protection System

- Stall Warning - As with the previous system this tells the pilot that he is approaching a stall condition.
- Stall Identification - This detects an imminent stall and automatically takes action to prevent the stall occurring, i.e. the stick is automatically pushed forward by the system.
- Auto Ignition – Automatically activate engine ignition system to prevent engine stall/flameout
- Flap/Slat/Krueger Flap Modulation - monitoring of flap and slat position and delay the initiation of stall warning.

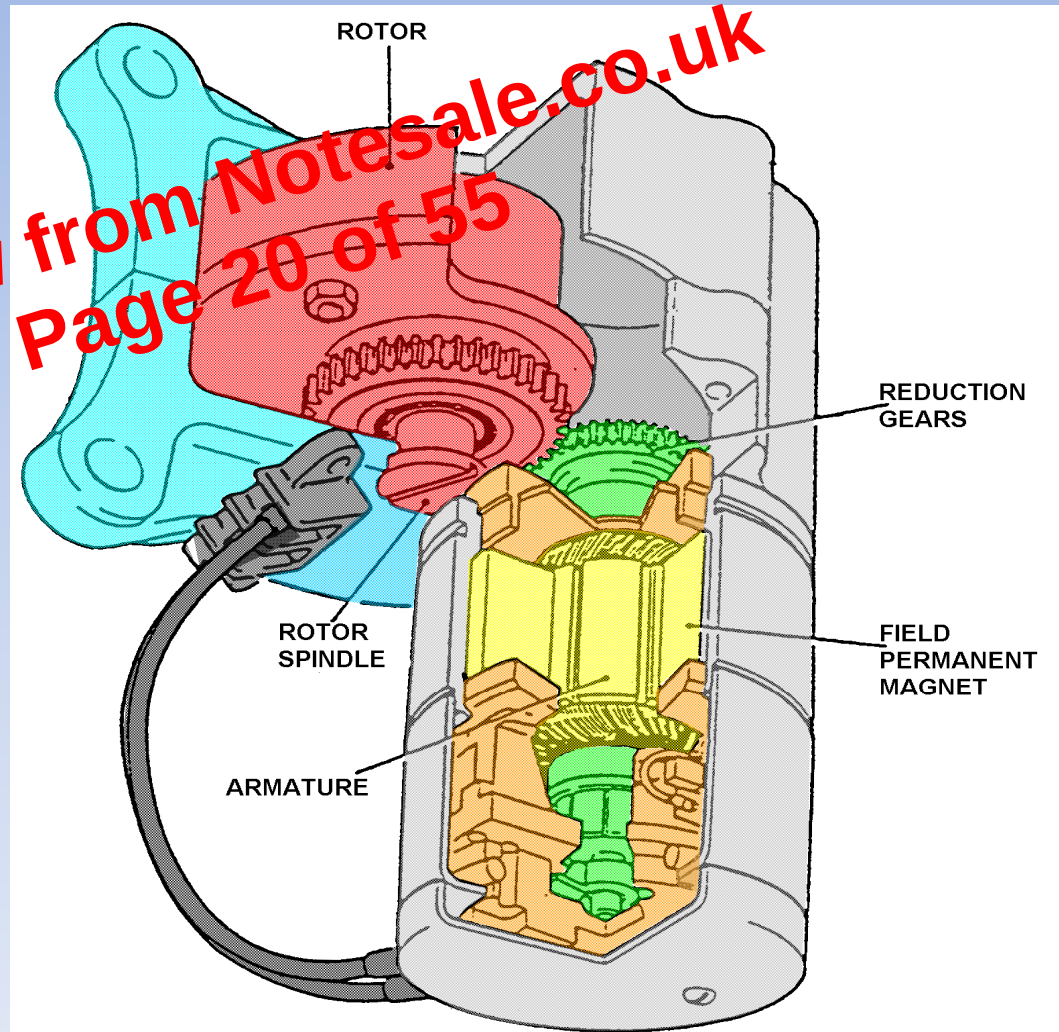
Typical system components

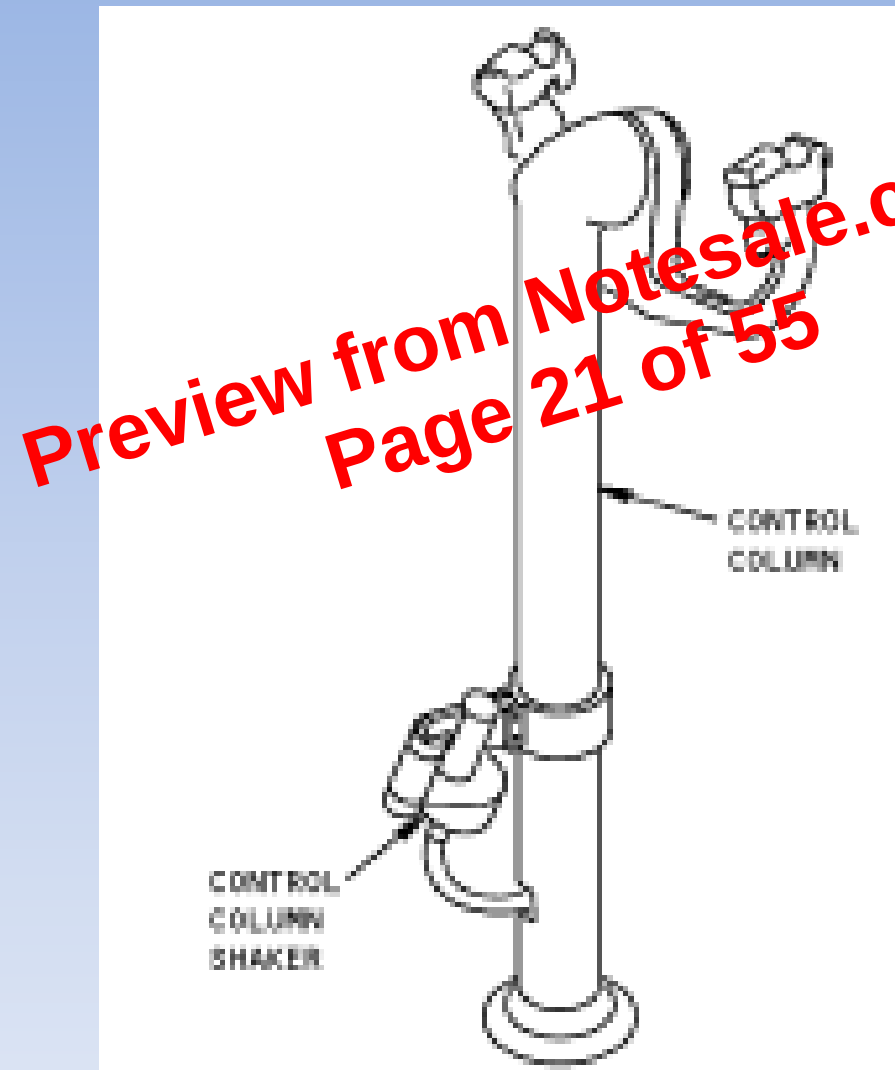
- Stall Warning Sensors - There are several designs in use. They may be mounted on the main-planes or side of the fuselage. They are normally duplicated, each providing a signal to a duplicated system.
- Stall Warning Computer - Receives signals from the sensors and initiates warnings or control movements.
- Stick Shaker - The Main stall warning device. An electrically driven, out of balance rotor, which shakes the control column when a stall warning condition, is detected.



Angle of Attack
Sensor

STICK SHAKER

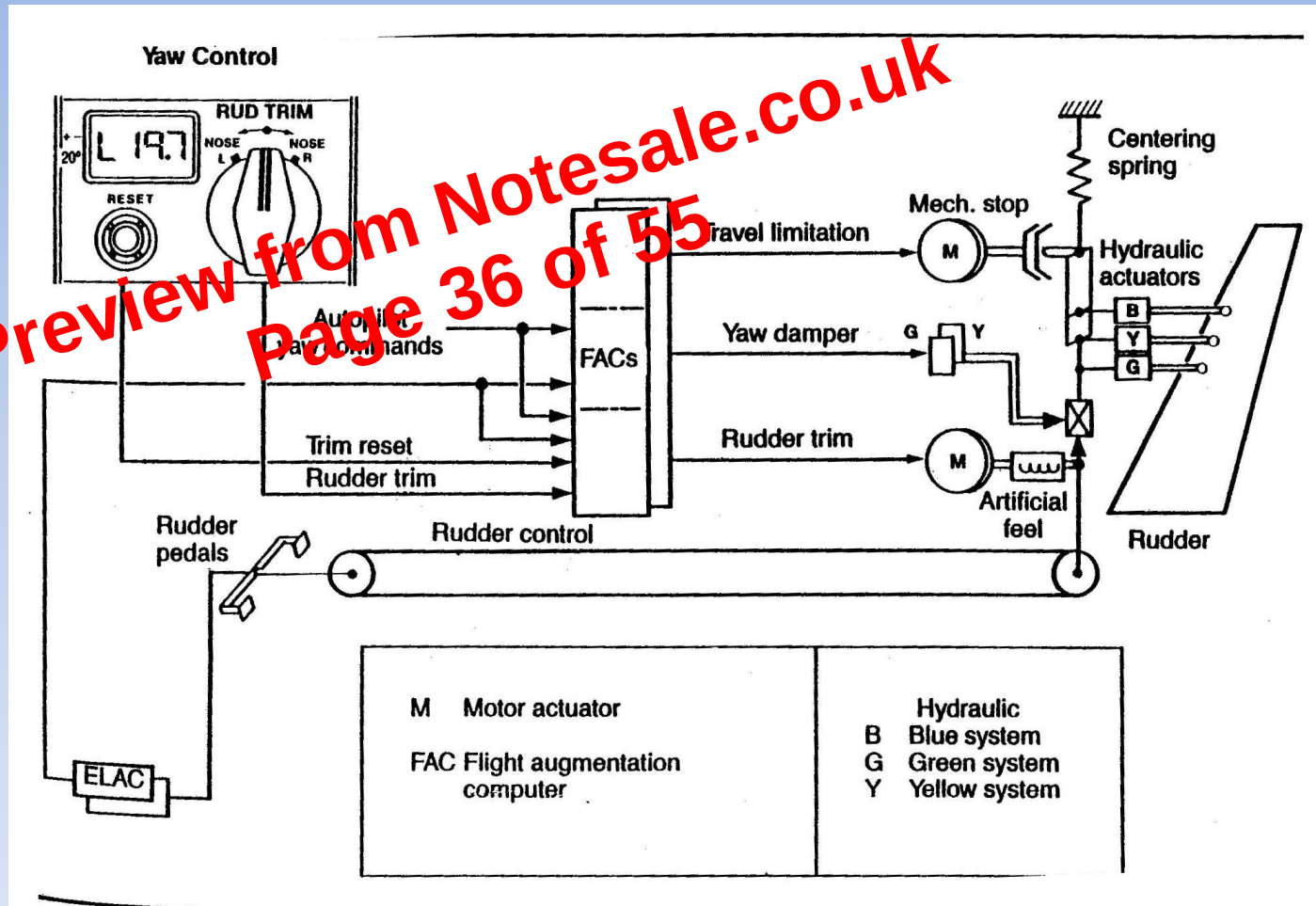




Typical Stick
Shaker Installation
(B747)

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Fly By Wire/ Electrical Flight Controls



A320 Yaw System

Monitoring

Computer organisation

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