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.
Typical Stick Shaker Installation (B747)
Fly By Wire/ Electrical Flight Controls
A320 Yaw System
Monitoring

Computer organisation

Flight control computer

Input

Splitter

Command unit

Monitor unit

Comparator

Output