

BOEING 737-800

TECHNICAL REVIEW - CHAPTER 10

FLIGHT INSTRUMENTS

ADIRS

Air Data Inertial Reference System includes :

- 2 ADIRU (Air Data Inertial Reference Unit)
- 4 ADM (Air Data Module)
- 1 ISDU (Inertial System Display Unit)
- 1 MSU (Mode Selector Unit)
- 6 Static ports (2 Capt, 2 F/O, 2 Alt)
- 3 Pitot probes
- 2 Alpha vanes
- 1 Total Air Temperature probe

A DEU (Display Electronic unit) failure will prompt a DSPLY SOURCE message.

PFD OVERVIEW

White bug : T/O = Vref +15kt Approach = Vref +20kt

Upper red band : Indicates the maximum speed as limited by VMO/MMO, gear or flap placard speed

Upper amber band : When flaps are up, indicates 1.3g capability to high speed buffet
 When flaps are extended, shows placard speed of the next logical flap setting

Lower amber band : Below 20'000 ft indicates 1.3g capability to stick shaker
 Above 20'000 ft indicates 1.3g capability to low speed buffet
 When the airspeed decreases to the lower amber bar the readout turns amber and flashes
 Also an aural alert "Airspeed low!, Airspeed low!" sounds

Lower red bar : Indicates speed at which stick shaker occurs

Pitch Limit Indicator : Shows pitch limit to stall when flaps are extended or at low speeds

Expedited LOC : Displayed when within 1/2 dot and 5° of MCP course

ALERTS

ALT DISAGREE : Capt & F/O Altitude disagree by more than 200ft for 5 seconds

IAS DISAGREE : Capt & F/O IAS disagree by more than 5kt for 5 seconds

AOA DISAGREE : Capt & F/O AOA disagree by more than 10° for 10 seconds

TERRAIN (On navigation display & VSD)

Red : Terrain is more than 2000 ft above the airplane

Amber : Terrain ranges from 500 ft below (250ft with gear down) to 2000ft above the airplane

Green : Terrain is more than 500 ft below (250ft with gear down) the airplane