

## Talks Tech Ten – Airspeed Unreliable

Q1: For takeoff what does the white bug on the speed tape indicate and what protection does it give?

A:  $V_2 + 15$ , 40° bank capability ( $25^\circ + 15^\circ$ ) for all take off flaps

Q2: Flap 5 is set. What does the bottom of the hollow amber bar on the upper side of the speed tape represent?

A: Placard speed for next flap setting based on the sequence 1,5,15,30

Q3: For landing what does the white bug on the speed tape represent?

A:  $V_{ref} + 15$  or  $V_{ref} + 20$  (CDS block point 2004 and later). Refer to FCOM for your configuration

Q4: When is the pitch limit indication displayed on the PFD and what does it represent?

A: When flaps are not up OR at slow speeds with the flaps up. It represents pitch attitude corresponding to stick shaker activation

Q5: If you select both a DA and DH and then place the minimums reference selector in the RADIO position how are DA and DH displayed to you?

A: The numeric value for DH is displayed and DA is indicated by the BARO minimums pointer only.

Q6: What does the AOA DISAGREE flag indicate?

A: The Captains and FO's AoA vanes disagree by more than  $10^\circ$  for 10 seconds

Q7: What would be the effect on airspeed of the ram air inlet into the pitot head being blocked?

A: Pressure in the probe is released through the drain holes and airspeed slowly drops to zero.

Q8: What would be the effects on airspeed should both the ram air inlet and the drain holes of the pitot be blocked?

A: Pressure trapped within the system acts unpredictably. It may increase through expansion, decrease by contraction or remain constant. In all cases, airspeed indications would be abnormal for phases of flight.

Q9: What are the effects on airspeed and altitude readouts of a blocked static port only?

A: The altimeter will freeze at current altitude, the VSI will show zero climb or descent and IAS will over-read in the descent and under-read in the climb.

Q10: If weather conditions require a takeoff alternate aerodrome what flight time does it need to be within for the 737 and are there any other stipulations to this?

A: 1 hour flight time and yes, cruise speed with a single engine.