

Instrument Cockpit Check

1. Communications equipment

preflight radios and antennas. Request "radio check."
Transponder on standby/on as required.

2. Navigation equipment

VORs requires VOR accuracy check within 30 days prior to IFR flight. Record date, place, bearing error(s) and sign - every 30 days

ILS : If LOC on field, then tune, identify, note correct indication

GPS Confirm IFR approved, certified. Follow appropriate start-up and self-test procedures. Check RAIM availability or WAAS outage as appropriate. See GPS section

3. Magnetic compass

Fluid-filled, Moves freely Correctly indicates known headings (taxiways, runways)

4. Heading indicator (HI) or Horizontal situation indicator (HSI)

Check suction/pressure

Allow **5 minutes** for gyro to spool up and become stable

Set to magnetic compass heading before taxi

Note correct indications on known headings during taxi

5. Attitude indicator (AI)

5 minutes for gyro spool up and become stable

Adjust Horizon Pitch per Aircraft (**most are not level in taxi position even on level ground, Horizon pitch must be re-adjusted for each phase of flight and power settings**)

Unreliable if fails to remain level in straight taxi, or banks more than **5°** during turns

6. Altimeter (ALT)

static system and altimeter check within 24 months

Set to current reported altimeter setting, compare to field elevation

ALT reading error > 75 feet is unacceptable for flight

Adjust ALT error to approach MDA or DH during flight

7. Vertical-speed indicator (VSI)

Note/set level indication (does not have to read zero, current indication is "new zero")

8. Airspeed indicator

Confirm pitot heat available (Turn Pitot heat on for no more than 10-15 secs and feel the pitot tube)

Airspeed comes alive on take off roll

9. Turn-and-slip indicator/turn coordinator (TC)

Ball moves freely, goes opposite turn

miniature airplane tilts into turn and level on straight taxi

10. GPS/CDI preflight check-

ie 530/430 check preflight check on screen/CDI needles full and half deflection

11. Auto Pilot- preflight check

list performed