

Code of Federal Regulations

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▼Sec. 25.1303

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart F--Equipment	General

Sec. 25.1303

Flight and navigation instruments.

(a) The following are required flight and navigation instruments:

(1) An airspeed indicating system. If airspeed limitations vary with altitude, the indicator must have a maximum allowable airspeed indication showing the variation of V_{MO} / M_{MO} with (i) altitude and (ii) compressibility limitations.

(2) An altimeter (sensitive or precision).

(3) A rate-of-climb indicator (vertical speed).

(4) A free air temperature indicator.

(5) A clock (sweep-second pointer).

(6) A rate-of-turn indicator (gyroscopic, with integral bank or slip indicator).

(7) A bank and pitch indicator (gyroscopically stabilized).

(8) A direction indicator (gyroscopically stabilized, magnetic or nonmagnetic).

(9) A direction indicator (nonstabilized magnetic compass).

(10) A machmeter (for airplanes with compressibility limitations not otherwise indicated under Sec. 25.1545 to the pilot).

(11) A speed warning device (for each turbine engine powered airplane and each other airplane with V_{MO} / M_{MO} greater than $0.8 V_{DF} / M_{DF}$ or $0.8 V_D / M_D$).

(b) The speed warning device required by subparagraph (a)(11) of this section must give effective aural warning (differing distinctively from aural warnings used for other purposes) to the pilots, whenever the speed exceeds V_{MO} plus six knots or $M_{MO} + 0.01$. The upper limit of the production tolerance for the warning device may not exceed the prescribed warning speed.