

# 1 Properties

GUIDE-100	The Guidance system shall be capable of maintaining a steady speed in the normal flight envelope
GUIDE-110	The Guidance system shall be capable of steering to and following a specified heading
GUIDE-120	The guidance shall be capable of climbing at a defined rate, to be limited by minimum and maximum engine performance and airspeeds.
GUIDE-130	The guidance shall be capable of descending at a defined rate, to be limited by minimum and maximum engine performance airspeeds.
GUIDE-140	The guidance shall be capable of climbing at a specified rate to a specified altitude, to be limited by maximum engine performance for a set airspeed
GUIDE-150	The guidance shall be capable of descending at a specified rate to a specified altitude, to be limited by maximum engine performance for a set airspeed
GUIDE-160	The guidance function shall be able to automatically deploy spoilers to limit speed in a descent, or when a significant reduction in airspeed is requested by the pilot, deactivating at low speed
GUIDE-170	The altitude control shall engage when the altitude control mode is selected and when the FPA control mode is not selected, and when there is no manual pitch or manual roll command from the stick.
GUIDE-180	The FPA control shall engage when the FPA control mode is selected and when there is no manual pitch or manual roll command from the stick.
GUIDE-190	If any control surface actuator loses hydraulic pressure, the autopilot shall disengage.
GUIDE-200	If the altitude control is engaged, once the plane is within 250 ft of the commanded altitude, the plane will remain within 250 ft of the commanded altitude.
GUIDE-210	If the FPA control and the altitude control are both selected, the FPA control will disengage and the altitude control will engage once the plane is within 200 ft of the commanded altitude.
GUIDE-220	The heading control shall engage when the heading control mode is selected and when there is no manual pitch or manual roll command from the stick.
GUIDE-230	If the altitude control is engaged with no active speed control, the speed control shall engage and the speed command shall synchronize to the current speed, which shall become the new altitude's target speed.
GUIDE-240	The bank angle limit is established by the Bank Angle Limit Selector.
GUIDE-250	The heading control mode, when selected, sends roll commands to turn to and maintain the commanded heading.
GUIDE-260	When the heading control mode is engaged, roll commands are given to turn in the nearest direction to the selected heading.
GUIDE-270	Manually positioning the thrust levers does not cause autothrottle disengagement.
GUIDE-280	The FCCs shall issue a warning when the commanded altitude disagrees with the stored commanded altitude stored in the FCCs.
GUIDE-290	The autothrottle will be limited by the maximum throttle, and the minimum throttle.