

01/08/2018

Primary and Support Instrument Roles in Various Flight Conditions

FLIGHT SITUATION	P PITCH	S PITCH	P BANK	S BANK	P POWER	
Straight & Level Cruise	Altimeter	VSI, AI	DG	TC, AI	ASI	
Straight & Level Decelerating	Altimeter	VSI, AI	DG	TC, AI	MP/Tach	Note ASI Decrease as it becomes Primary Power
Straight & Level Slow AS	Altimeter	VSI, AI	DG	TC, AI	ASI	
Climb Entry - Constant AS Climb Stabilized Constant AS Climb	AI ASI	VSI AI, VSI	DG DG	AI, TC TC	MP/Tach	Note ASI Decrease as VSI & Altimeter Increase
Stabilized Constant Rate Climb	VSI	AI	DG	AI, TC	ASI	
Level-off @ Cruise	Altimeter	AI, VSI	DG	AI, TC	ASI	
Constant Rate Descent - AS High	VSI	AI	DG	AI, TC	ASI	Note Desired AS Change
Level-off AS Higher than Descent AS	VSI	AI	DG	AI, TC		Note ASI Change & Lead It
Level-off @ Descent AS	VSI	AI, VSI	DG	AI, TC	ASI	Note Altimeter is Primary Pitch @ 50' Lead
Standard Rate Turn Entry Standard Rate Turn Established	Altimeter Altimeter	VSI AI, VSI	AI TC		ASI ASI	
Change of Air Speed in Turns	Altimeter	AI, VSI	TC	AI	MP/Tach	Note ASI Change as it becomes Primary Power