

G1000 NXi – ESP Checkout Flight Profile Civil Air Patrol - Alaska Wing



Flight Date:	Aircraft Tail #:	Airfield:
Pilot Name/CAP ID:		/
Ground Phase;		
Demonstrate how to	Identify ESP is installed	on the MFD boot screen
Demonstrate how to	Disable/Enable ESP on	AUX – System Setup Page
(Optional) Demonsti	rate iPAD bluetooth con	nect on AUX – Connext Setup Page
Enter a flight plan (C	ptional – Upload from i	PAD)
Demonstrate PFD M	ap <- > Inset Map optio	ns
Demonstrate audio	panel setup and volume	controls
Takeoff Phase;		
Demonstrate AOA Ir	ndicator for normal depa	arture airspeed/AOA
Air Work – ESP/USP Demo;		
Proceed to safe prac	tice area and perform ty	ypical clearing and pre-maneuver
checks. Recommended n	ninimum altitude for beខ្	ginning each maneuver is 2500 ft AGL.
Verify ESP is enabled	d – Aux – System Setup F	Page
Show ESP Roll Limit	Indicators active on Atti	tude Indicator
ESP Roll Limit Demo;		
	-	nk, at maneuvering speed with
appropriate power, and o		
	ly yoke roll pressure to l	
	Limit Indicators move to	_
	•	button and observe that control
pressures being applied b		
	-	rn for 10 + seconds to initiate ESP
transition to Autopilot L\		
	gaging Autopilot" aural a	
	L – LVL" status on PFD Al	
		ve the AP will level the wings and set
level flight pitch (0 fpm v		
	pilot with the AP DISC bi	utton and recover to normal level
flight.		
ESP Pitch Up Demo;		and the control of th
		ormal setup for typical power on stall.
	raise the nose to approx	
	age and begin to apply n	
	• •	0 degrees nose high and observe ESP
disengages and removes		or to lovel flight before approaching
stall speed.	wei the hose and recove	er to level flight before approaching
วเลม วยระน.		

	ESP Low Speed Demo (Autopilot OFF);			
	- Perform clearing turns, system checks and normal setup for typical power off stall.			
	- Hold a level flight pitch attitude and pull the power towards idle and continue to			
	hold the nose near level flight pitch as the air	rspeed decreases		
	As the airspeed approaches a stall (appr	•		
	apply nose down pressure	·		
	Recover >> Apply Power, press and ho	old the AP DISC button to pause the ESP		
	servo pressures and accelerate / recover to a			
	USP - Under Speed Protection Demo (Autop	•		
	Perform clearing turns and system chec			
	maneuver setup	71 71 0		
	Turn on the Autopilot and enable HDG a	and ALT modes		
	Begin reducing power and watch the air			
	For C182/C206, autopilot will hold altitude until stall warning, for C172, until			
	approx. 55 KIAS	,		
	Observe the autopilot will begin lowering	ng the nose and allowing altitude to		
	decrease in order to hold stall speed +2 KIAS for C182/C206, or approx. 60 KIAS for C172			
	- Recover> Apply power and press the AP DISC button to disconnect the autopilot			
	and perform a typical slow flight recovery.	,		
	G1000 NXi Features Demo;			
	Demonstrate MFD Chart / Map / Topo	/ WX / VSD Display Options		
	Demonstrate setting up a "Visual Appro			
Coupl	ed Go-Around Demo;			
	Proceed to brief and set up an instrume	nt approach at any available airfield		
	Fly the approach normally with the autopilot coupled			
	Set the published missed approach altitude in the ALT SEL prior to passing the FAF			
	Keep the autopilot coupled and begin the descent on the final portion of the			
	approach	ie dessent on the mai portion of the		
	At 500 ft AGL or higher begin the missed	d approach procedure by simultaneously		
	pressing the GA button and adding full power			
	position	ry and enest the haps are in proper six		
	- Observe the autopilot is commanding a	wings-level 7 degree pitch climb		
		begin flying the missed approach segment		
	- Recover> Discontinue the missed app			
Landir	ng Phase;	Todail Hormany		
Lanan	Demonstrate AOA Indicator for normal	final approach airspeed/AOA		
	Demonstrace No./ maleacor for normal	midi approach anspeca, non		
COMIV	IENTS:			
	- G1000 NXi ESP Classroom Training was comp	leted on (date):		
Instri	ctor/Check Pilot Printed Name / CAP ID	Signature		
	interpretation in the state of	Jigiiatui C		

Signature certifies that the Pilot has satisfactorily performed the necessary ground and flight training for the G1000 NXi – ESP transition familiarization and is now authorized to fly associated CAP aircraft.