

Date: _____
 Tail No: _____

PA-28-180 Annual Inspection Checklist

	Item	Initials	Notes
Operational checks	Verify airworthiness and registration		
	Verify fuel pump and gauges working		
	Check gyros for noise and roughness		
	Start aircraft, lean mixture and perform ground test of engine		
	Verify oil pressure and temperature		
	Check alternator output		
	Check brakes		
	Check vacuum gauge		
	Check magneto switch operation. Verify P-leads operational		
	Check carburetor heat		
	Check engine operational smoothness		
	Check engine at idle		
	Engine compartment	Remove cowl	
Clean and degrease engine			
Engine operational check completed, engine warm			
Drain oil and remove filter (if applicable)			
Remove and inspect spark plugs, clean and gap as needed. Check on Ohm meter (500-3500 Ohms)			
Check cylinder compression			
Inspect cylinders for broken fins			
Inspect rocker box covers for evidence of leak			
Inspect ignition harness and insulators			
Inspect magneto, points, felts, and timing.			
Inspect magneto for oil leakage			
Inspect oil temperature sender for leaks			
Inspect oil lines and fittings for leaks, security, chafing, cracks, or wear.			
Inspect oil cooler			
Flush oil cooler (500 hour intervals)			
Inspect and clean in-line fuel strainer			
Inspect fuel lines and fittings for leaks, security, chafing, or wear			
Inspect vacuum pump and lines			
Inspect carburetor, throttle, and carb heat controls for security and travel			

Engine compartment	Inspect air filter		
	Inspect air inlet hoses		
	Inspect exhaust stacks and gaskets		
	Inspect muffler, heat exchange, and baffles		
	Inspect breather tube for obstructions and security		
	Inspect crank case for cracks, leaks, and security of seam bolts		
	Inspect all electrical wiring and connections		
	Inspect engine mounts for loosening or cracks		
	Inspect condition of alternator drive belt, mounting brackets and bolts, and security of alternator mounting		
	Check brake fluid reservoir		
	Reinstall spark plugs and ignition leads		
	Replace oil filter and fill with oil (if applicable)		
	Lubricate all controls		
	Reinstall engine cowl		

Propellor	Inspect spinner and backplate		
	Inspect blades and dress as needed		
	Inspect propellor mounting bolts and safety wire		
	Inspect propellor hub for cracks and corrosion		

Fuselage/Empenage	Aircraft wiped down and degreased		
	Inspect fuselage for damage		
	Inspect wind shield for damage		
	Inspection plates removed		
	Inspect baggage door, latch and hinges, for operation and security		
	Inspect battery, battery box and battery cables		
	Inspect interior bulk heads and stringers		
	Inspect antenna mounts and wiring		
	Inspect ELT, ELT battery (exp date), and verify operation		
	Inspect fuel lines, valves, and gauges		
	Inspect rudder surface for damage		
	Remove tail cone and lube jack screw		
	Inspect and lubricate rudder hinges and hinge bolts, horn, and attachments		
	Inspect rudder control stop (lock nut should be tight)		
	Inspect stabilator surface for damage		
	Inspect and lubricate stabilator, tab hinges, horn, and attachment points for damage, excessive wear, and operation		
	Inspect stabilator control stops (lock nut should be tight)		
	Inspect and lubricate stabilator trim mechanism and jack screw		
	Inspect all control cables for damage, chafing, and operation		
	Inspect all control cable tensions		
	Reinstall inspection plates		

Wings	Aircraft jacked and secure		
	Inspect tires and lube bearings		
	Inspect brake pad linings		
	Remove inspection plates and fairings		
	Inspect surfaces and tips for damage and loose rivets		
	Inspect condition of walk-way		
	Inspect aileron hinges and attachments		
	Inspect aileron control stops (lock nut should be tight)		
	Inspect aileron cables, pulleys, and bell cranks for damage, chafing, and operation		
	Inspect and lubricate flaps and attachments for damage and operation		
	Inspect wing attachment bolts		
	Inspect fuel tanks and fuel lines for leaks, water, or contamination		
	Fuel tanks marked for capacity		
	Fuel tanks marked for minimum octane rating		
	Inspect pitot/static mast		
	Verify operation of stall warning switch		
	Fuel vents clear and unobstructed		
	Reinstall inspection plates		