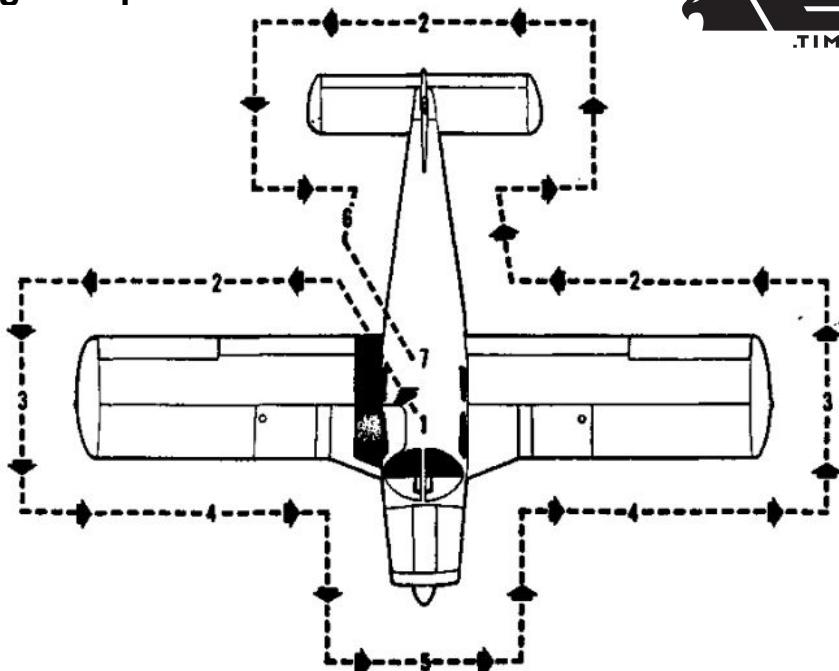


Preflight inspection

Piper 28-140 Cherokee v1



1	a. Release seat belt securing control wheel b. Master switch ON c. Check fuel quantity indicators (two tanks) d. Master switch and ignition OFF
2	a. Check for external damage, operation interference of control surfaces or hinges b. Insure that wings and control surfaces are free of snow, ice or frost
3	a. Visually check fuel supply, secure caps b. Drain all fuel system sumps and lines and check for water, sediment and proper fuel. (See Fuel System Section for procedure) c. Check that fuel system vents are open
4	a. Check landing gear shock struts for proper inflation (approximately 4-1/2 inches) b. Check tires for cuts, wear and proper inflation c. Check brake blocks and discs for wear and damage
5	a. Inspect windshield for cleanliness b. Check the propeller and spinner for defects or nicks c. Check for obvious fuel or oil leaks d. Check oil level, 8 quarts maximum (Insure dipstick is properly seated) e. Inspect cowling and inspection covers for security f. Check nose wheel tire for inflation, wear g. Check nose wheel shock strut for proper inflation (approximately 3-1/4 inches) h. Check for foreign matter in air inlets i. Check alternator belt tension
6	a. Stow tow bar and control locks, if used b. Check baggage for proper storage and security
7	a. Upon entering aircraft ascertain that all primary flight controls operate properly b. Close and secure the cabin door c. Check that required papers are in order and in the aircraft d. Fasten seat belts and shoulder harness. Check function of inertia reel

PREFLIGHT INSPECTION		RUN-UP	
Airplane documents	AVAILABLE	Parking brake	SET
Flaps	DOWN	Flight instruments	CHECK/SET
Tach/Hobbs Time	RECORDED	Mixture	RICH
Walk around	COMPLETE	Throttle	2000 RPM
BEFORE STARTING ENGINE		Engine gauges	GREEN
Flaps	UP	Magneton	175RPM / 50RPM DIFF
Seats/Belts	LOCKED / ON	Vacuum gauge	4.9 - 5.1
Electronic devices	OFF	Carburetor heat	ON
Parking brake	SET	Throttle	IDLE w/CARB HEAT
Controls	CHECK / CORRECT	Throttle	1000 RPM
Circuit Breakers	CHECK / IN	Carburetor heat	OFF
STARTING ENGINE		BEFORE TAKEOFF	
Master switch	ON	Trim	SET NEUTRAL
Anti-Collision Beacon	ON	Fuel pump	ON
Mixture	FULL RICH	Fuel selector	FULLEST TANK
Fuel pump	ON	Mixture	FULL RICH
Fuel selector	LESS FUEL TANK	Carburetor heat	OFF
Fuel pressure	CHECK	Parking brake	OFF
Carburetor heat	OFF	Doors	CLOSED / LATCHED
Prime	AS REQUIRED	Flaps	SET T/O
Throttle	OPEN 1/4"	Landing light	ON
Propeller area	CLEAR	Transponder	ALT
Ignition switch	START/PUSH	NORMAL TAKEOFF	
Oil pressure	CHECK	Flaps	UP or 10°
Engine	1000 RPM	Rotate	65 MPH
Fuel pump	OFF	Climb	85 MPH
Transponder	STBY/7000	SHORT FIELD TAKEOFF	
Flight instruments	SET	Flaps	25°
Take off Briefing	COMPLETE	Rotate	65 MPH
TAXI		Climb	74 MPH (clear obstacles)
Mixture	LEAN TAXI	Climb	85 MPH
Nav lights	AS REQUIRED	Flaps	POSITIVE RATE / UP
Brakes	CHECK	SOFT FIELD TAKEOFF	
		Flaps	25°
		Rotate	SOON AS POSSIBLE
		Ground effect	UNTIL 74/85 MPH
		Climb	74/85 MPH
		Flaps	POSITIVE RATE / UP



AFTER TAKEOFF CHECKLIST (<300ft AGL)		AFTER LANDING	
Flaps	UP	Flaps	UP
Landing lights	OFF	Mixture	LEAN TAXI
Fuel pump	OFF	Carburettor heat	OFF
CRUISE		Fuel pump	
Power	2200/2600 RPM	Transponder	
Trim	SET	SHUTDOWN / SECURING	
Fuel selector	FULLEST TANK SWITCH EVERY 30 mins	Parking brake	ON
DESCENT		Electronic devices	OFF
Engine instruments	GREEN	Lights	OFF
Landing light	ON	Throttle	1000-1200 RPM
Fuel pump	ON	Mixture	IDLE / CUT-OFF
Circuit breakers	CHECK / IN	Master	OFF
Fuel selector	FULLEST TANK	Magnos	OFF / OUT
Seats/Belts	LOCKED / ON	Chocks	SET
Parking brake	OFF	Parking brake	OFF
BEFORE LANDING		Tach/Hobbs Time	RECORDED
Flaps	AS REQUIRED	ENGINE FAIL IN FLIGHT	
Carburettor heat	ON	Airspeed	80 MPH
Gas	FULLEST TANK / FUEL PUMP	Carburettor heat	ON
Mixture	FULL RICH	Fuel selector	SWITCH TANKS
ENGINE FAILURE TAKEOFF		Mixture	FULL RICH
Throttle	IDLE	Master switch	ON
Brakes	APPLY	Fuel pump	ON
Mixture	IDLE / CUT-OFF	Ignition switch	BOTH
Ignition switch	OFF	LAND W/O ENGINE POWER	
Master	OFF	Airspeed	80 MPH
ENGINE FAIL AFTER ROTATE		Mixture	IDLE / CUT-OFF
Airspeed	80 MPH	Fuel selector	OFF
Fuel selector	SWITCH TANKS	Throttle	CLOSED
Fuel pump	ON	Mixture	IDLE / CUT-OFF
Mixture	FULL RICH	Cabin Heat/Air	OFF
Carburettor heat	ON	Defroster	OFF
Piper PA 28-140 Cherokee V SPEED			
		Vy	85
		Vne	171
		Va	129
		Vg	80
		Vsi	64
		Vx	74
		Vno	140
		Vfe	115
		Vso	55
		Vr	65



<https://time2fly.pl/techlog/piper-28-140/>



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