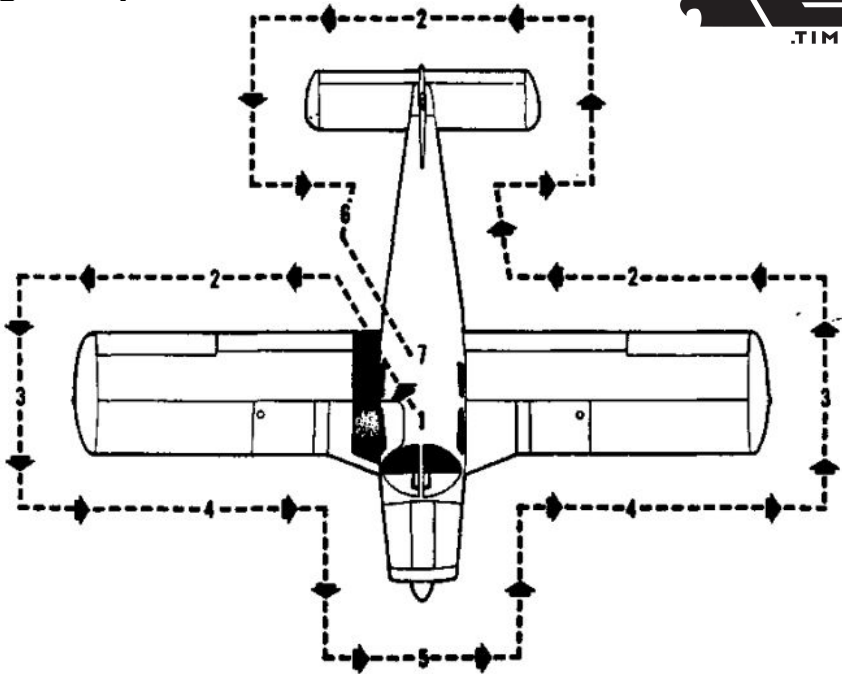


Preflight inspection

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

Airplane documents	AVAILABLE
Flaps	DOWN
Tach/Hobbs Time	RECORDED
Walk around	COMPLETE

BEFORE STARTING ENGINE

Flaps	UP
Seats/Belts	LOCKED / ON
Electronic devices	OFF
Parking brake	SET
Controls	CHECK / CORRECT
Circuit Breakers	CHECK / IN

STARTING ENGINE

Master switch	ON
Anti-Collision Beacon	ON
Mixture	FULL RICH
Fuel pump	ON
Fuel selector	LESS FUEL TANK
Fuel pressure	CHECK
Carburettor heat	OFF
Prime	AS REQUIRED
Throttle	OPEN 1/4"
Propeller area	CLEAR
Ignition switch	START/PUSH
Oil pressure	CHECK
Engine	1000 RPM
Fuel pump	OFF
Transponder	STBY/7000
Flight instruments	SET
Take off Briefing	COMPLETE

TAXI

Mixture	LEAN TAXI
Nav lights	AS REQUIRED
Brakes	CHECK

RUN-UP

Parking brake	SET
Flight instruments	CHECK/SET
Mixture	RICH
Throttle	2000 RPM
Engine gauges	GREEN
Magnetos	175RPM / 50RPM DIFF
Vacuum gauge	4.9 - 5.1
Carburettor heat	ON
Throttle	IDLE w/CARB HEAT
Throttle	1000 RPM
Carburettor heat	OFF

BEFORE TAKEOFF

Trim	SET NEUTRAL
Fuel pump	ON
Fuel selector	FULLEST TANK
Mixture	FULL RICH
Carburettor heat	OFF
Parking brake	OFF
Doors	CLOSED / LATCHED
Flaps	SET T/O
Landing light	ON
Transponder	ALT

NORMAL TAKEOFF

Flaps	UP or 10°
Rotate	65 MPH
Climb	85 MPH

SHORT FIELD TAKEOFF

Flaps	25°
Rotate	65 MPH
Climb	74 MPH (clear obstacles)
Climb	85 MPH
Flaps	POSITIVE RATE / UP

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)

Flaps	UP
Landing lights	OFF
Fuel pump	OFF

CRUISE

Power	2200/2600 RPM
Trim	SET
Fuel selector	FULLEST TANK SWITCH EVERY 30 mins

DESCENT

Engine instruments	GREEN
Landing light	ON
Fuel pump	ON
Circuit breakers	CHECK / IN
Fuel selector	FULLEST TANK
Seats/Belts	LOCKED / ON
Parking brake	OFF

BEFORE LANDING

Flaps	AS REQUIRED
Carburettor heat	ON
Gas	FULLEST TANK / FUEL PUMP
Mixture	FULL RICH

ENGINE FAILURE TAKEOFF

Throttle	IDLE
Brakes	APPLY
Mixture	IDLE / CUT-OFF
Ignition switch	OFF
Master	OFF

ENGINE FAIL AFTER ROTATE

Airspeed	80 MPH
Fuel selector	SWITCH TANKS
Fuel pump	ON
Mixture	FULL RICH
Carburettor heat	ON

AFTER LANDING

Flaps	UP
Mixture	LEAN TAXI
Carburettor heat	OFF
Fuel pump	OFF
Transponder	STBY/7000

SHUTDOWN / SECURING

Parking brake	ON
Electronic devices	OFF
Lights	OFF
Throttle	1000-1200 RPM
Mixture	IDLE / CUT-OFF
Master	OFF
Magnetos	OFF / OUT
Chocks	SET
Parking brake	OFF
Tach/Hobbs Time	RECORDED

ENGINE FAIL IN FLIGHT

Airspeed	80 MPH
Carburettor heat	ON
Fuel selector	SWITCH TANKS
Mixture	FULL RICH
Master switch	ON
Fuel pump	ON
Ignition switch	BOTH

LAND W/O ENGINE POWER

Airspeed	80 MPH
Mixture	IDLE / CUT- OFF
Fuel selector	OFF
Ignition switch	OFF
Master switch	OFF

ENGINE FIRE IN FLIGHT

Fuel selector	OFF
Throttle	CLOSED
Mixture	IDLE / CUT-OFF
Cabin Heat/Air	OFF
Defroster	OFF

Piper PA 28-140 Cherokee V SPEED

Vy	85	Vx	74
Vne	171	Vno	140
Va	129	Vfe	115
Vg	80	Vso	55
Vsi	64	Vr	65





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



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



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