

Inspire Aviation

Piper Cherokee 180 Checklist

Note: Info for reference only. Use at own risk/
Use POH for detailed info. (Revised 10/27/2023)

PREFLIGHT INSPECTION

Weather CHECK
Weight & Balance CHECK
Fuel AS REQ
Oil 6 QT MIN

Interior

Do Not Step On Flaps Or Lean On Door

Fire Extinguisher CHECK
Aircraft Documents CHECK
POH/AFM ONBOARD
Circuit Breakers CHECK IN
Magnetos OFF
Avionics Switch (radios) OFF
Tach/Hobbs RECORD
Master Switch ON
Fuel Quantity CHECK
Exterior Lights CHECK
Pitot/Static (if IFR) CHECK
Master Switch OFF
Flaps FULLY EXTENDED
Trim NEUTRAL
Fuel Selector FULLEST TANK

Right Wing Trailing Edge

Flap (security) CHECK
Aileron (freedom & security) CHECK

Right Wing Leading Edge

Tie Down REMOVE
Fuel Quantity CHECK VISUALLY
Fuel Tank Sump DRAIN
Fuel Cap SECURE
Fuel Tank Vent CLEAR
Tire, Strut, Brake Disc & Pad CHECK

Cowling

Oil Level CHECK & SECURE CAP
Max is 8 quarts. Minimum safe quantity is 2 quarts. Do
not operate with less than 6 quarts. **Do not over-tighten
oil cap.**

Windshield CHECK CLEANLINESS
Propeller & Spinner CHECK
Air Inlets CHECK
Nose Wheel Tire CHECK
Nose Wheel Strut CHECK
Fuel Strainer DRAIN

Left Wing Leading Edge

Tire, Strut, Brake Disc & Pad CHECK
Fuel Tank Sump DRAIN
Fuel Tank Vent CLEAR
Fuel Quantity CHECK VISUALLY
Fuel Cap SECURE
Tie Down REMOVE
Pitot/Static Mast CHECK

Left Wing Trailing Edge

Aileron (freedom & security) CHECK
Flap (security) CHECK

Empennage

Antennas CHECK
Stabilator CHECK
Anti Servo Trim Tab CHECK
Rudder CHECK
AFT Tie Down REMOVE
General Walkaround CHECK
Flaps RETRACT

BEFORE STARTING ENGINE

Preflight Inspection COMPLETE
Passenger Brief COMPLETE
Doors, Seat & Seat Belts (Positive Latch), Fire
Extinguisher, No Smoking
Seat & Seat Belts ADJUST AND LOCK
Parking Brake SET

Circuit Breakers CHECK IN
Electrical Switches OFF
Ignition switch OFF
Avionics Switch OFF
Fuel Selector FULLEST TANK
Carb Heat COLD
Master Switch ON
Beacon ON
Nav Light AS REQ
Strobe Lights AS REQ

ENGINE START

Brakes HOLD
Primer (as required) IN & LOCKED
Mixture RICH
Fuel Pump ON/CHECK PRESSURE
Pump Throttle (4 COLD / 1 HOT)
Throttle OPEN ¼”
Prop Area CLEAR
Ignition Switch START
Throttle 800 RPM
Oil Pressure CHECK
Fuel Pump OFF/CHECK PRESSURE
Mixture LEAN TO E

AFTER START

Headsets ON
Avionics Switch ON
ATIS/AWOS OBTAIN
Clearance (if IFR) OBTAIN
Altimeter SET
GPS ENTER WPT/FPL
Flight Instruments
(AT/TC/COMPASS & HI/VSI) CHECK/SET

TAXI

Airport Diagram OUT/AVAILABLE
Taxi Clearance OBTAIN/BRIEF
Landing/Taxi Light (if installed) ON
Parking Brake RELEASED
Brakes CHECK
Flight Instruments (AI/TC/HI/VSI) CHECK

RUN UP

Parking Brake SET
Landing/Taxi Light OFF
Mixture RICH
Throttle 2000 RPM
Magnetos CHECK
(Drop should not exceed 125 RPM on either Magneto or
a difference of 50 RPM between the two)
Engine Gauges GREEN
Carb Heat ON/CHECK FOR RPM DROP
Throttle IDLE
Carb Heat OFF
Throttle 800 RPM
Mixture LEAN TO E

Pre-Takeoff Brief

Engine failure or abnormality during takeoff roll:

IMMEDIATELY CLOSE THROTTLE, STOP
STRAIGHT AHEAD & AVOID OBSTACLES

If not enough runway remains to stop:

Mixture CUTOFF
Fuel selector OFF
Magnetos OFF
Master Switch OFF
Avoid Obstacles

Engine failure immediately after takeoff:

LAND ON REMAINING RUNWAY/WITHIN 30°
OF CENTERLINE. AVOID OBSTACLES. DO NOT
ATTEMPT 180° TURN.

Airspeed BEST GLIDE
Flaps AS NECESSARY
Power AS AVAILABLE
Time Permitting DECLARE EMERGENCY
Mixture CUTOFF
Fuel Selector OFF
Ignition OFF
Master Switch OFF

BEFORE TAKEOFF

Pre-Takeoff Brief COMPLETE
Flight Controls FREE & CORRECT
Flight Instruments CHECK & SET
Fuel Gauge/QTY CHECK/SUFFICIENT
Fuel Selector FULLEST TANK
Trim SET NEUTRAL
Flaps SET
GPS SET
Heading Indicator SET
Departure Brief

Initial Altitude & heading

Brief Departure Procedure COMPLETE
Parking Brake RELEASE

Final Items When #1 For Takeoff

Mixture SET FOR BEST POWER
Fuel Pump ON / CHECK PRESSURE
Seat Belt & Shoulder Harness FASTENED
Door & Windows CLOSED & LOCKED
Lights ON
Transponder ALT
Traffic CHECK

AFTER TAKEOFF

Airspeed Vy/Vx/AS REQ
Flaps UP
Fuel Pump OFF/CHECK PRESSURE
Throttle FULL
Trim ADJUSTED

CRUISE

Power 2400 or 65-75%
Mixture (above 3000') LEAN
Engine Gauges Green
Fuel Selector FULLEST TANK
Landing Light OFF

IN RANGE / DESCENT

ATIS/AWOS OBTAIN
Altimeter SET
Approach Brief COMPLETE
Airport Diagram (keep Available) CHECK

Seat Belts FASTENED
Fuel Pump ON
Fuel selector FULLEST TANK
Mixture RICH
Carb Heat AS REQ
Engine Gauges GREEN
Parking Brake OFF

BEFORE LANDING

Fuel Pump ON/CHECK PRESSURE
Fuel Selector FULLEST TANK
Mixture RICH
Carb Heat AS REQ
Flaps AS REQ
Landing Light ON

AFTER LANDING

Trim SET NEUTRAL
Flaps UP
Mixture LEAN TO E
Carb Heat OFF
Fuel Pump OFF
Taxi & Landing Lights AS REQ
Taxi Clearance OBTAIN

SHUTDOWN / SECURE

Avionics Switch OFF
Throttle 800 RPM
Mixture CUTOFF
Electrical Switches OFF
Ignition OFF
Master OFF
Tach/Hobbs RECORD
Tiedown/Chock SET

**Be Sure to Wipe Down the windscreen (GO WITH
THE WIND) and leading edges.**