



PIPER CHEROKEE 180

CHECKLIST

Revision 2.1
25/01/2016

WARNING: The pilot in command has the final responsibility to ensure each checklist complies with the appropriate Pilot's Operating Handbook (POH) or Flight Manual.

These checklists do not replace the appropriate Pilot's Operating Handbook or Flight Manual and include selected procedures only.

PREFLIGHT

Check general appearance: tires, shapes, dents in skin, fluid on the ground etc. when approaching the airplane.

PREFLIGHT

IAMSAFE COMPLETE
Weather CHECK
Equipment Required CHECK
Weight & Balance COMPUTE
TO/Landing Distances COMPUTE
Runway Lengths CHECK
FUEL Requirements VERIFIED
Dispatch Aircraft Verify Airworthy, Tach & Hobbs

CABIN

Certificates/Documents IN AIRCRAFT
 Airworthiness Certificate Check
 Registration Check
 Radio Operators/Station License International Only
 POH Operating Limitation/Airplane Flight Manual..... Check
 Weight and Balance (current) Check
 Discrepancy Record Check
Parking Brake SET
Hobbs/Tach RECORD
Control Wheel Lock REMOVE
Ignition Switch OFF
Master Switch ON
Fuel Quantity Indicators CHECK QUANTITY
Anti-collision / Strobe Lights CHECK OPERATION
Flaps DOWN FOR INSPECTION
Lights (Night Operation) CHECK
Master Switch OFF
Fuel Selector FULLEST TANK
Baggage Door CHECK SECURE

RIGHT WING

Flap TracksCHECK
Aileron CHECK FREEDOM & SECURE
Nav.Light. UNBROKEN (GREEN)
Fuel Tank Vent OpeningCHECK
Fuel Tank Sump Quick-Drain Valve DRAIN
Wing Tie-down REMOVE
Main Wheel Tire CHECK WEAR & INFLATION
..... 24 psi
Shock Strut CHECK PROPER
..... Approx. 4.5 inches showing
Fuel Quantity CHECK VISUALLY
Fuel Filler Cap..... SECURE

NOSE

Windshield CHECK CLEAN
Wheel Chocks REMOVE
Engine Oil Dipstick CHECK (6-8 qt.)
Nose WheelCHECK WEAR & INFLATION (24 psi)
Shock Strut CHECK PROPER INFLATION
..... Approx. 3.25 inches showing
Air Inlet.....CHECK FREE OF FOREIGN MATTER
Landing Light CHECK
Propeller & SpinnerCHECK
Tow Bar REMOVE
Engine Fuel Strainer DRAIN

LEFT WING

Main Wheel Tire CHECK WEAR & INFLATION (24 psi)
Shock Strut CHECK PROPER INFLATION
..... Approx. 4.5 inches showing
Fuel Tank Sump Quick-Drain Valve DRAIN
Wing Tie-down REMOVE
Pitot Tube/Static Vent CHECK
Fuel Tank Vent Opening CHECK
Stall Warning Tab CHECK
Fuel Quantity CHECK VISUALLY
Fuel Filler Cap SECURE
Nav. Light UNBROKEN (RED)
Aileron CHECK FREEDOM & SECURE
Flap Tracks CHECK

TAIL SECTION

Tail Tie-Down REMOVE
Elevator & Rudder CHECK FREEDOM & SECURE
Nav. Lights UNBROKEN (WHITE)
Antenna CHECK SECURITY

BEFORE STARTING ENGINE

Tow Bar REMOVED/SECURED
Chocks REMOVE
Preflight Inspection COMPLETE
Passenger Briefing COMPLETE
Seats, Seat Belts, Harness ADJUST & LOCK
Brakes SET
Circuit Breakers CHECK IN
Electrical Equipment OFF
Fuel Selector FULLEST TANK

STARTING ENGINE

Mixture RICH
Carburetor Heat COLD/OFF
Prime AS REQUIRED (2-3 strokes)
Throttle OPEN 1/4 inch
Master Switch ON
Fuel Pump..... ON
Beacon Light ON
Propeller Area CLEAR
Ignition Switch..... START
Oil Pressure CHECK
Engine Warm-up THROTTLE 800-1200 RPM
Fuel Pump..... OFF
Mixture LEAN FOR TAXI

BEFORE TAXI

Lights & Strobes AS REQUIRED
Radios ON & SET
ATIS OBTAIN
Clearance (if IFR flight) OBTAIN
Transponder 1200 or Assigned by ATC
Transponder ALT
Flaps UP
Seats, Belts, Harnesses CHECK SECURE
Brakes TEST

BEFORE TAKEOFF

Parking Brake SET
Seats, Belts, Harnesses CHECK SECURE
Cabin Door CLOSED & LOCKED
Flight ControlsFREE & CORRECT
Fuel Selector FULLEST TANK
Elevator Trim SET for takeoff
..... Check electric trim cut-out / manual override.
Fuel Quantity CHECK
Mixture RICH
Throttle 2000 RPM
Magnetos CHECK
..... 175 max drop / 50 max diff.
CaurarHe CHECK
Suction Gage..... CHECK
..... 4.9 to 5.1 psi
Engine Instruments & Ammeter CHECK
Throttle CHECK IDLE LIMITS (650 RPM)
..... if holding for Takeoff IDLE at 1200 RPM
Throttle Friction LockADJUST
Flight Instruments CHECK & SET
Radios SET
TransponderALTITUDE
AutopilotOFF
Fuel Pump ON
Wing Flaps SET for takeoff
Lights..... AS DESIRED
Brakes RELEASE
Departure Time (Fuel purpose) NOTE
..... SET REMINDER

TAKE-OFF

NORMAL TAKE-OFF

Wing Flaps 0 Degrees
Carburetor Heat COLD/OFF
Throttle FULL OPEN
Elevator Control LIFT NOSE WHEEL (60 MPH)
Climb Speed 74 - 85 MPH

AFTER TAKE-OFF

Wing Flaps 0 Degrees
Fuel pump OFF
Landing Light OFF

ENROUTE

ENROUTE CLIMB

Airspeed 100 MPH
Throttle FULL OPEN

CRUISE

Power 2000-2500 RPM (AS REQUIRED)
Elevator Trim ADJUST
Mixture LEAN for MAX RPM
..... Max EGT - 50F
Fuel Tank SWITCH EVERY 30 MIN

DESCENT

Fuel Selector FULLEST TANK
Power AS DESIRED
Mixture ADJUST
Carburetor Heat AS REQUIRED

LANDING

BEFORE LANDING

Autopilot OFF
Fuel Pump ON
Seats, Belts, Harnesses SECURE
Fuel Selector FULLEST TANK
Mixture RICH
Carburetor Heat ONLY IF CARB. ICE SUSPECTED
Landing Light..... ON

NORMAL LANDING

Airspeed 85 MPH (flaps up)
Wing Flaps AS DESIRED (below 115 MPH)
Airspeed 76 MPH (full flaps)
Touchdown MAINS FIRST
Landing Roll LOWER NOSE WHEEL GENTLY
Braking MINIMUM REQUIRED

AFTER LANDING

Carburetor Heat COLO
Wing Flaps UP
Transponder STANDBY
Fuel Pump..... OFF
Lights AS REQUIRED
Mixture LEAN FOR TAXI

SHUTDOWN

Avionics	OFF
Electrical Equipment & Lights	OFF
Throttle	1000 RPM
Mixture	IOLE CUT-OFF
Ignition Switch	OFF
Master	OFF
Control Lock	INSTALL
Hobbs & Tach	RECORD
Check-in Aircraft	COMPLETE
Aircraft	SECURE
Fuel.....	FILL TO TAB

SPEEDS

REFERENCE

VR (Rotation Speed)	60 MPH
Vx (Best Climb Rate)	74 MPH
Vy (Best Rate of Climb)	85 MPH
Va (Maneuvering Speed)	108-129 MPH
V _{fe} (Max. flap extended speed)	115 MPH
Vno (Max structural Speed)	140 MPH
Vne (Never Exceed Speed)	171 MPH
Vs1 (Stall Speed Clean - See figure)	67 MPH
Vso (Stall Speed Dirty - See figure)	57 MPH
BEST GLIDE (CLEAN)	80 MPH

NOTE: ALL SPEEDS ABOVE ARE FOR GROSS WEIGHT (2,400 /bs) AIRCRAFT