



FlightCerts

PA28-140 OPERATION CHECKLISTS

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Take Off Callouts (on the runway)

To be used with respective takeoff checklist

Runway Heading	"Verified"
Throttle	"Set for Takeoff"
Engine Instruments	"Indications Normal"
Airspeed	"Alive"
Decision Speed	"Continue [Abort]"
Rotate	"[Vr speed], Rotate"
Climbing	"Positive Rate"
Airspeed	Best Rate: Vy (85 mph) Best Angle: Vx (74 mph)

Cruise Checklist

Engine	"Throttle Set"
Trim	"Set for Cruise"
Mixture	"Lean for Altitude"
Heading	"Set and Verified"
Fuel Tank	"Switch Tanks" [See checklist]
Engine Instruments	"Indications Normal" "Cross Check"
"Cruise Checklist Complete"	

Departure Checklist (1,000 AGL)

Engine	"Set Full Throttle"
Airspeed	Best Rate: Vy (85 mph) Cruise Climb: Vcc (100 mph)
Trim	"Set for Climb"
Fuel Pump	"Off"
Engine Instruments	"Indications Normal" "Cross Check"
Landing Light	"Off"
"Departure Checklist Complete"	

Descent Checklist

ATIS	"Received"
Altimeter	"Set"
Heading	"Set and Verified"
Trim	"Set for Descent"
Mixture	"Rich"
Carb Heat	"As Required"
Approach Briefing	"Complete"
"Descent Checklist Complete"	

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Landing Checklist (1,000 AGL)

Trim *"Set for Approach"*

Carb Heat *"Off"*

Landing Light *"On"*

Fuel Pump *"On"*

Fuel Tank *"Set Fullest Tank"*

Mixture *"Rich"*

Flaps *"As Required"*
(Below 115 mph)

Seat Belts *"Fastened"*

Clearance *"Cleared [type],
Runway [specify]"*

"Landing Checklist Complete"

Go Around Checklist

Throttle *"Set Full Throttle"*

Carb Heat *"Cold"*

Flaps *"Up"*

Airspeed *"[Vx, Vy, Vcc]"*

"Go Around Checklist Complete"

Pre-Maneuver Checklist

Landing Light *"On"*

Clearing Turn *"Complete"*

Height *"[Say Altitude]"*

Engine *"Indications Normal"*

Location *"[Say Heading]"*
(safe practice area)

Look Out *"Clear of Traffic"*

"Checklist Complete"

Switch Tanks (Above 1,000 AGL ONLY)

Fuel Pump *"On"*

Select Tank *"[Left or Right] tank set"*

Fuel Pressure *"Normal"*

"Checklist Complete"

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

After Landing Checklist

Trim *"Set Neutral"*

Landing Light *"Off"*

Strobe Lights *"Off"*

Flaps *"Up"*

Carb Heat *"Off"*

Fuel Pump *"Off"*

Mixture *"Lean for Taxi"*

"After Landing Checklist Complete"

Securing Checklist

Master *Verify Off*

Hobbs/Tach *Record*

Flight Controls *Install Control Lock*

Tie Downs *Secure*

Wheels *Chocked*

Doors & Windows *Closed & Locked*

Cover *Installed*

Flight Plan *Closed*

Shutdown Checklist

Avionics *"Off"*

Transponder *"Off"*

Beacon *"Off"*

Nav Lights *"Off"*

Engine *"1,000 rpm"*

Mixture *"Idle Cut Off"*

Ignition Switch *"Off"*

Master Switch *"Off"*

"Shutdown Checklist Complete"

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

91.103 Checklist

NOTAMs	<i>Reviewed</i>
Weather	<i>Briefed</i>
Known ATC Delays*	<i>Verified</i>
Runway Lengths	<i>Reviewed</i>
Alternates*	<i>Planned Accordingly</i>
Fuel Requirements	<i>Planned Accordingly</i>
Takeoff & Landing Distances	<i>Verified Required Performance</i>
Weight & Balance	<i>Complete</i>

Pilot Documents Checklist

Government Photo ID	<i>Check</i>
FAA License	<i>Check</i>
Medical Certificate	<i>Check</i>
Endorsements	<i>As Required</i>
Currency	<i>Verified</i>
Passport	<i>International Flights</i>
FCC Radio License	<i>International Flights</i>

Preflight Checklist

Cockpit

HOBBS / TACH	<i>Record</i>
91.103 Requirements	<i>Complete</i>
Airworthiness Dispatch Release	<i>Verify</i>
Pilot Documents Checklist	<i>Verify</i>
Control Lock	<i>Remove</i>
Ignition Switch	<i>Off</i>
Circuit Breakers	<i>Check</i>
Avionics	<i>Off</i>
Master Switch	<i>On</i>
Fuel Quantity	<i>Check</i>
Lights (Nav, Strobe, Beacon, Landing)	<i>All On</i>
Walk Around	<i>Verify Lights Operational</i>
Lights (Nav, Strobe, Beacon, Landing)	<i>All Off</i>
Fuel Pump	<i>Check Operation</i>
Master Switch	<i>Off</i>
Fuel Selector	<i>Fullest Tank</i>
Flaps	<i>Down</i>

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Preflight Checklist

Right Wing

Flap *Check*

Aileron *Check*

Wing Surface & Tip *Check*

Leading Edge *Check*

Main Wheel & Brakes *Check*

Tiedown *Remove*

Fuel Sample *Check*

Fuel Tank Quantity *Check*

Preflight Checklist

Left Wing

Fuel Sample *Check*

Main Wheel & Brakes *Check*

Fuel Tank Quantity *Check*

Leading Edge *Check*

Pitot Tube *Check*

Stall Warning *Check*

Wing Surface and Tip *Check*

Aileron *Check*

Flap *Check*

Tiedown *Removed*

Preflight Checklist

Nose

Oil Level (100 plus) *6 qt min*

Engine Compartment *Check*

Exhaust Stack *Check for Cracks*

Propeller & Spinner *Check*

Cowl Inlet & Baffles *Check*

Landing Light *Check*

Air Induction / Filter *Check*

Nose Gear Assembly *Check*

Nose Tire *Check*

Fuel Sample *Check*

Preflight Checklist

Fuselage / Empennage

Rudder & Stabilator *Check*

Antennas *Check*

Fuselage Skin *Look for Damage*

Windows *Check*

Tiedown *Remove*

Wheel Chocks *Remove*

"Preflight Checklist Complete"

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Starting Checklist

Passenger Briefing	<i>“Complete”</i>
Seatbelts	<i>Adjust</i>
Brakes	<i>“Set and Hold”</i>
Fuel Selector	<i>“Fullest Tank”</i>
Mixture	<i>“Full Rich”</i>
Throttle	<i>“Set”</i> (¼ Inch)
Primer	1-3 Pumps <i>“In and Locked”</i>
Master Switch	<i>“On”</i>
Fuel Pump	<i>“On”</i>
Prop Area	<i>“CLEAR PROP!”</i>
Starter Button	Push
Engine / Throttle	Set 1000 rpm
Oil Pressure	<i>“Check”</i> (Within 30 Secs)
Ammeter	<i>“Positive--Charging”</i>
Beacon	<i>“On”</i>
Fuel Pump	<i>“Off”</i>
Fuel Pressure	<i>“Check”</i>
Nav / Position Lights	<i>“On”</i>

“Starting Checklist Complete”

Before Taxi Checklist

Mixture	<i>“Lean for Taxi”</i>
Cabin Doors	<i>“Closed and Latched”</i>
Flaps	<i>“Up”</i>
Avionics	<i>“On”</i>
Transponder	<i>“On—Altitude Reporting”</i>
ATIS	Record
Altimeter	<i>“Set, Verified with Field Elevation”</i>
Heading	<i>“Set, Verify with Compass”</i>
Taxi Briefing	<i>“Complete”</i>
Brakes	<i>“Check”</i>
Instrument Cockpit Check	<i>“Complete”</i>

“Taxi Checklist Complete”

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Run-Up Checklist

Brakes	<i>"Set and Hold"</i>
Flight Controls	<i>"Free and Correct"</i>
Flight Instruments	<i>"Set and Checked"</i>
Fuel Quantity	<i>"Checked"</i>
Fuel Selector	<i>"Set Fullest Tank"</i>
Primer	<i>"In and Locked"</i>
Mixture	<i>"Rich"</i>
Throttle	<i>"2,000--Set"</i>
Carb Heat	<i>"Within Operating Limits"</i> (150 rpm drop)
Magnetos (L, R, Both)	<i>"Within Operating Limits"</i> (175 rpm drop / 50 rpm diff)
Oil Pressure	<i>"Check"</i>
Oil Temperature	<i>"Check"</i>
Ammeter	<i>"Charging"</i>
Vacuum Gauge	<i>"Within Operating Limits"</i> (Above 5", plus or minus .1)
Throttle	<i>"1,000 rpm – Set"</i>
Doors / Windows	<i>"Closed and Locked"</i>

Run-up Checklist Complete

Normal Takeoff Checklist

Takeoff Briefing	<i>"Complete"</i>
Transponder	<i>"Altitude Reporting"</i>
Mixture	<i>"Set for Max Performance"</i>
Trim	<i>"Set for Takeoff"</i>
Flaps	<i>"Set"</i>
Fuel Pump	<i>"On"</i>
Strobe Lights	<i>"On"</i>
Landing Light	<i>"On"</i>
Flight Controls	<i>"Positioned for Wind Correction"</i>

Takeoff Checklist Complete

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Short Field Takeoff Checklist

Takeoff Briefing *"Complete"*

Transponder *"Altitude Reporting"*

Mixture *"Set for Max Performance"*

Trim *"Set for Takeoff"*

Flaps *"Set 25°"*

Fuel Pump *"On"*

Strobe Lights *"On"*

Landing Light *"On"*

Runway Entry *Taxi for Max Length*

Flight Controls *"Positioned for Wind Correction"*

Brakes *"Hold"*

Throttle *"Set for Takeoff"*

Brakes *"Release"*

Rotate *"Rotate"*
(Vr 60 mph)

Airspeed *"Best Angle of Climb"*
(Vx 74 mph)

After Clearing Obstacles *"Best Rate of Climb"*
(Vy 85 mph)

Flaps *"Up"*

Short Field Takeoff Checklist Complete

Soft Field Takeoff Checklist

Takeoff Briefing *"Complete"*

Transponder *"Altitude Reporting"*

Mixture *"Set for Max Performance"*

Trim *"Set for Takeoff"*

Flaps *"Set 25°"*

Fuel Pump *"On"*

Strobe Lights *"On"*

Landing Light *"On"*

Runway Entry *Taxi—No Stopping Aft Elevator Pressure*

Flight Controls *"Positioned for Wind Correction"*

Throttle *"Set for Takeoff"*

Rotate *Minimal Airspeed*

Ground Effect *Accelerate to Vy*

Airspeed *"Best Rate of Climb"*
(Vy 85 mph) – Use Vx if Obstacles

Flaps *"Up"*

Soft Field Takeoff Checklist Complete

Piper Cherokee 140

Normal Operation Checklist



FlightCerts

Short Field Landing Checklist

Trim *"Set for Approach"*

Landing Light *"On"*

Fuel Pump *"On"*

Fuel Tank *"Set Fullest Tank"*

Mixture *"Rich"*

Flaps *"Set 40°"*

Seat Belts *"Fastened"*

Clearance *"Cleared [type],
Runway [specify]"*

Final Approach Minimum Approach Speed

Touch Down Earliest Point Possible

Stabilator Up Deflection—Max
Aerodynamic Braking

Flaps *"Up"*

Braking *"Max Braking"*

Short Field Landing Checklist Complete

Soft Field Landing Checklist

Trim *"Set for Approach"*

Landing Light *"On"*

Fuel Pump *"On"*

Fuel Tank *"Set Fullest Tank"*

Mixture *"Rich"*

Flaps *"As Required"*

Seat Belts *"Fastened"*

Clearance *"Cleared [type],
Runway [specify]"*

Touch Down On Main Wheels--Soft

Stabilator Up Deflection—Keep
Weight Off of Nose Wheel

Taxi Keep Rolling Avoid
Stopping

Soft Field Landing Checklist Complete



No Flap Landing Checklist

Trim *“Set for Approach”*

Landing Light *“On”*

Fuel Pump *“On”*

Fuel Tank *“Set Fullest Tank”*

Mixture *“Rich”*

Flaps *“Up”*

Seat Belts *“Fastened”*

Clearance *“Cleared [type],
Runway [specify]”*

Final Approach Shallow Approach Angle,
Approach Speed: 70 mph

Touch Down Soft—High Speed

Stabilator Up Deflection—Max
Aerodynamic Braking

Braking **As Needed**

No Flap Landing Checklist Complete



Engine Failure Checklist

DURING TAKEOFF

Throttle	<i>"Idle"</i>
Brakes	<i>Apply</i>
Flaps	<i>"Up"</i>
Mixture	<i>"IDLE Cut Off"</i>
Ignition	<i>"Off"</i>
Master Switch	<i>"Off"</i>

Checklist Complete

Engine Failure Checklist

AFTER TAKEOFF (Below 1,000 AGL)

Airspeed	<i>83 mph</i>
Mixture	<i>"IDLE Cut Off"</i>
Fuel Selector	<i>"Off"</i>
Ignition	<i>"Off"</i>
Flaps	<i>"As Required"</i>
Master Switch	<i>"Off"</i>

Checklist Complete

Engine Failure Checklist

DURING FLIGHT (Above 1,000 AGL)

Airspeed	<i>83 mph</i>
Fuel Selector	<i>"Switch Tanks"</i>
Mixture	<i>"Rich"</i>
Carb Heat	<i>"On"</i>
Primer	<i>"In and Locked"</i>
Ignition	<i>"Both and Start"</i>
Transponder	<i>7700</i>
Radio	<i>121.5 "Mayday x3"</i>

Checklist Complete

Engine Failure Checklist

POWER OFF LANDING

Airspeed	<i>83 mph</i>
Fuel Selector	<i>"Off"</i>
Mixture	<i>"IDLE Cut Off"</i>
Ignition	<i>"Off"</i>
Flaps	<i>"As Required"</i>
Master	<i>"Off"</i>
Door	<i>Unlatch</i>

Brace for Impact

Piper Cherokee 140

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FlightCerts

Engine Roughness Checklist

Mixture	<i>Adjust</i>
Carb Heat	<i>"On"</i>
Magnetos	<i>"Check [Left / Right]"</i>

Checklist Complete

Engine Fire During Start

If Engine NOT Started

Crank	<i>Continue</i>
Throttle	<i>"Open"</i>
Ignition	<i>Continue Cranking</i>

Checklist Complete

If Engine Starts

Engine RPM	<i>1,700 rpm</i>
Fuel Selector	<i>"Off"</i>
Mixture	<i>"IDLE Cut-Off"</i>
Master Switch	<i>"Off"</i>
Ignition Switch	<i>"Off"</i>
Evacuate Aircraft	<i>Extinguish If Able</i>

Checklist Complete

Engine Fire During Flight

Mixture	<i>"IDLE Cut-Off"</i>
Fuel Selector	<i>"Off"</i>
Radio	<i>121.5 (Mayday x3)</i>
Transponder	<i>7700</i>
Emergency Descent	<i>100 Kts (Smother Flame)</i>
Cabin Air Vents	<i>"Closed"</i>
Ignition Switch	<i>"Off"</i>
Master Switch	<i>"Off"</i>

Complete Power Off Landing Checklist

Electrical Fire During Flight

Radio	<i>121.5 (Declare Emergency)</i>
Transponder	<i>7700 Ident</i>
Master Switch	<i>"Off"</i>
Avionics	<i>"Off"</i>
Cabin Air Vents	<i>"Closed"</i>
Master Switch	<i>"Off"</i>

Land as Soon as Possible

Piper Cherokee 140

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FlightCerts

Cabin During Flight

Cabin Air Vents *Closed*

Windows / Doors *Closed*

Emergency Descent *Max Descent Rate*

Extinguish Fire

Radios *121.5 (Mayday x3)*

Transponder *7700*

Master Switch *"Off"*

Land as soon as Possible

Wing Fire

Navigation Lights *"Off"*

Pitot Heat *"Off"*

Forward Slip *Away from Fire*

Emergency Descent *100 Kts (Smother Flame)*

Flaps *"Up" Do NOT Use*

Radio *121.5 (Mayday x3)*

Transponder *7700*

Land as soon as Possible

Electrical / Alternator Failure

Load Meter *Verify*

Advise ATC

Load Shed *Unnecessary
Equipment--Off*

Master Switch *"Off"*

Fuses *"Check"*
Only Reset after 5 minutes
Only Reset ONCE

Master Switch *"On"*

Avionics *"Check"*

If Not Resolved—Load Shed and Land ASAP

Electrical Overload

Master Switch *"Off"*

Master Switch *"On"*

Overvoltage Light *Check*

If Overvoltage ON Land as soon as Possible