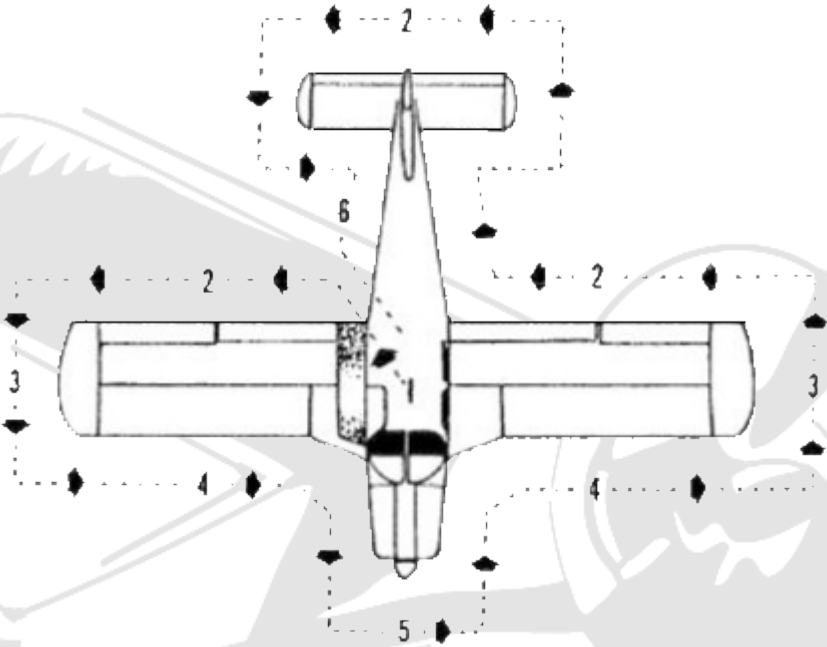


Piper Cherokee

PA-28-140 (P28A)

Preflight Inspection:



1. Master ON
Check Fuel quantity
Lights Check
Master Off
Flaps down
2. Control surfaces check
3. Wingtip & Nav lights check
4. Fuel vents check
Sump tanks
Fuel level Check
Tire & Brake condition check
Strut Inflation
5. Oil & Engine check
Prop and Spinner check

6. Empennage check

[Passenger Briefing]

- No Smoking including E-cigs
- How to use Seatbelts
- How to operate door
- Egress plan
- Location of Survival Equipment
- Ditching procedures

Piper Cherokee

PA-28-140 (P28A)

Aircraft Information:

Empty Weight

3940K - 1292 lbs.

6148W - 1267 lbs.

Max Useful Load

3940K - 858 lbs.

6148W - 883 lbs.

Max Baggage area - 100 lbs.

Max Takeoff weight - 2150 lbs.

Fuel Types - 100LL (Blue)

Useable Fuel - 48 Gallons

Oil Capacity - 5.5qt min | 8 max

Electrical - 12 volt | 60 amp

Tire Pressure - 24 PSI

Vr - Rotation speed - 60mph

Vx - Best Angle Climb - 76mph

Vy - Best Rate Climb - 90mph

Va - Maneuvering speed - 121mph

Vg - Best Glide speed - 80mph

Vfe - Flaps Extended - 115mph

Vno - Max Cruise - 143mph

Vne - Never Exceed - 178mph

Vs - Stall Clean - 50mph

Vso - Stall Dirty - 41mph

Piper Cherokee

PA-28-140 (P28A)

Engine Start:

Seatbelts ON
Brakes - SET
Master Switch ON
Beacon Light ON
Propeller area CLEAR
Mixture Rich
Throttle Cracked
| **Prime** |
As Required for Wx / Eng cond.
Fuel Pump ON
| **Starter Engage** |
3940K | **Mag Left, Push Starter, then Both**
6148W | **Key to start**
Throttle to 1000RPM
Fuel Pump OFF
Oil Pressure Green in 30sec
Avionics ON

Before Taxi:

Brake Check
Oil temp - Green before taxi
Obtain Weather
Brief Taxi route

Abort plan:

1. On Runway
2. Below 1000 feet
3. Above 1000 feet

Account for all Weather, W&B, and performance considerations for your flight.

Engine Run up:

Flight Control Check
Fuel pump ON
Fuel Tank Switch
Fuel pump OFF

| **Power 1700RPM** |
Magneto Check
(175RPM Max drop | 50RPM Max Diff)

Carb Heat - ON
Engine Instruments - Green
Suction - 4 to 6
Idle Power Check
Carb Heat - OFF
Power - 1000RPM

Before Takeoff Check:

Flaps Set
Door closed & latched
Magnetos on BOTH
Landing Light ON
Fuel Pump ON
Primer in and locked
Flight Instruments Set
Transponder on ALT
Radios Set
Trim Set

← **Brief Abort plan**

Piper Cherokee

PA-28-140 (P28A)

Climb Check:

Mixture Full Rich
Power Full
Climb at Vy

Cruise Check:

Pitch for level flight
Build speed to cruise
Set power per chart
Trim airplane
Lean mixture above 3000'

Descent Check:

Mixture Full Rich
Fuel Pump - ON
Fuel Tank - Fullest
Lights - ON

Determine descent type

Cruise Descent
Power 2000RPM Airspeed 120MPH
Steep Descent
Power 1500RPM Airspeed 100MPH

After Landing:

Clear all Runways & Stop
Flaps UP
Lights as required
Fuel Pump OFF
Trim SET
Taxi plan - confirm

Shutdown & Securing:

Avionics OFF
Lights OFF except Beacon
Fuel Pump OFF
Mixture Idle cutoff

| Propeller Stops |

Magnetos OFF & Key OUT
Master Switch OFF
HOBBS and b Tach recorded

| Aircraft |

Cowl plugs IN
Covers ON
Chocks & Tie downs Secure

Emergency Procedures:

Power loss in flight:

- A** (Airspeed) 80MPH
- B** (Best place to land)
- C** (Checklist to Restart / Secure)

| Restart |

Mixture RICH
Power FULL
Carb Heat ON
Magnetos BOTH
Fuel Pump ON
Fuel Selector SWITCH

| No Windmill |

Starter Engage

| No Restart |

Squawk 7700
Transmit Mayday on 121.5
Fuel Selector OFF
Fuel Pump OFF
Carb Heat OFF
Throttle IDLE
Mixture IDLE CUTOFF
Door OPEN
500AGL MASTER OFF

| Commit to Landing |

Spin Recovery:

- P** (Power to Idle)
- A** (Ailerons to Neutral)
- R** (Rudder to Break Spin)
- E** (Elevator to Break Stall)
| Normal Stall Recovery |

Fire in flight:

Power to Idle
Mixture Idle cut-off
Fuel selector off
30-45* bank
Accelerate to over 100mph to
extinguish engine fire
Select suitable landing point
Land as safely as possible
Exit aircraft

Aircraft Performance Chart

Cruise Performance			TAS		Hours	Sm
ALT	%BHP	RPM	MPH	GPH	END	RNG
2000	75	2450	120	9.1	5.3	636
	65	2300	112	8.2	5.9	660
	55	2200	104	7.5	6.5	676
4000	75	2500	123	8.8	5.5	676
	65	2350	114	7.4	6.6	752
	55	2210	106	6.9	7.1	752
6000	75	2560	125	8.3	5.9	737
	65	2400	117	7.1	6.9	807
	55	2250	107	6.7	7.3	781
8000	75	2600	128	8.0	6.1	780
	65	2440	119	7.0	7	833
	55	2290	109	6.5	7.5	817

Wheel fairings add 4MPH to airspeed and 3SM per hour to range

Leaning procedure:

To lean aircraft set RPM per chart above, then lean mixture slowly until RPM indication slightly decreases, from that point enrichen mixture to restore RPM setting, then enrichen mixture an additional 1/2" or three 1/4 turns on Vernier mixture.

Verify CHT is running at 350* or below

Piper Cherokee

PA-28-140 (P28A)

Weight & Balance

Location	Weight	Arm	Moment
Empty Weight		85.8	
Pilot & F-Pax		85.5	
Rear Seat		117.0	
Baggage		117.0	
Fuel		95.0	

$$CG = TM/TW$$

