



Flight School

Piper Cherokee N8345R

Checklist

Preflight Preparation

NOTAMS.....Check
Weather.....Check
Weight and Balance.....Check
Inspections/Squawks.....Review

CABIN

Documents.....A.R.O.W
Hobbs Meter.....Record
Tach Meter.....Record
Ignition.....OFF
Keys.....On Dash
All Switches, except beacon.....OFF
Master Switch.....ON
Fuel Gauges.....Check
Lights.....Check
Stall Annunciator.....Test
Master Switch.....OFF
Fuel Selector.....Fullest
Elevator Trim.....Set for Takeoff
Flaps.....Fully Extend

RIGHT WING

Flaps.....Inspect
Aileron/Hinges.....Inspect
Wing Tip/Lights.....Inspect
Leading Edge.....Inspect
Fuel Quantity.....Check
Fuel Vent.....Inspect
Main Gear.....Inspect
Brakes.....Inspect
Tire.....Inspect

NOSE & COWLING

Windshield.....Clean if Dirty
Right Engine Cowling....Open & Inspect
Oil Level.....Check (6qts)
Exhaust.....Inspect
Prop/Spinner.....Inspect
Front Cowling Inlets.....Inspect
Alternator Belt.....Check Tension
Air Filter.....Check
Nose Gear & Strut.....Inspect
Left Engine Cowling.....Open & Inspect
Cowling.....Secure both sides

LEFT WING

Leading Edge.....Inspect
Main Gear.....Inspect
Brakes.....Inspect
Tire.....Inspect
Fuel Vent.....Check
Fuel Quantity.....Check
Pitot/Static Tube.....Check Clear
Wing Tip/Lights.....Inspect
Aileron/Hinges.....Inspect
Flaps.....Inspect

EMPENNAGE

Skin & Rivets.....Inspect
Antennas.....Inspect
Horizontal Stabilator.....Inspect
Trim Tab.....Inspect
Vertical Stabilizer.....Inspect
Rudder.....Inspect
Underside.....Inspect

Final Check

Sump Fuel.....Drain
Right, Left, Nose
Fuel Caps.....Secure
Last 360°Walk Around.....Complete

NORMAL OPERATIONS

ENGINE START

Preflight.....Complete
Passenger Brief.....S.A.F.E.T.Y.
Seats.....Adjusted/Locked
Door.....Closed/Locked
Fuel Selector.....Fullest
Trim.....Set for Takeoff
Flaps.....UP
Circuit Breakers.....Check In
Carb Heat.....Cold
Mixture.....Full Rich
Throttle..... $\frac{1}{8}$ " - $\frac{1}{4}$ " Open
Beacon.....ON
Master Switch.....ON
Primer.....(Cold)2-3 Strokes
(Hot) Not Required
Primer.....In and Locked
Fuel Pump.....ON
Propeller Area.....Clear
Brakes.....Hold
Magnetos.....Both
Starter.....Push to Engage
Throttle.....800-1000RPM
Oil Pressure.....Above Red Line
Fuel Pump.....OFF
Mixture.....Lean 1"

After Start/Before Taxi

Check Ammeter.....Check (0-+)
Avionics Master.....ON
ATIS/AWOS.....Obtain
Altimeters.....Check & Set
Lights.....As Required
Brakes.....Test

Run Up/Before Takeoff

Brakes.....Hold
Flight Controls.....Free & Correct
Mixture.....Rich
Throttle.....2000RPM
Ammeter.....Zero or Positive
Engine Instruments.....Green
Magnetos.....Left/Right(<175)
Left/Right +/- 50
Carb Heat.....On
Throttle.....Idle
Carb Heat.....OFF
Throttle.....800-1000RPM
Flight Instruments.....Check
Radios/Avionics.....Check and Set
Heading Bug.....Set
Pre-Takeoff Brief.....Complete

Magnetos - "Burn Off" Procedure (If needed)

- Increase RPM to 2200
- Lean Mixture for Best RPM
- Run for 2 Minutes
- Return to 1700RPM
- Repeat magneto check

Hold Short

Trim.....Set
Door/Windows.....Closed/Locked
Fuel Pump.....ON
Fuel.....on desired tank
Lights(Landing+Nav).....ON
Camera(Transponder).....ALT
Action(Mixture).....Rich
Traffic+Time.....Check+Note Time

Before Takeoff Brief

“This will be a (Type) takeoff on runway (##). We have xxxft of runway available & the wind is from (direction) at (velocity)”

1. **Abnormality PRIOR to Vr** - Throttle to Idle and Brake as Necessary.
2. **Engine Failure Immediately After Takeoff** - Throttle to idle and land on the remaining runway.
If no Runway Remaining Nose Down to hold 83MPH (Vg) & Land on the best suitable field in front of you. No more than 30° left or right. Then execute emergency forced landing
3. **Will Not** turn back to the Airport until at least 1000’AGL. Maintain 83MPH (Vg) and focus on positive control with no bank exceeding 30°
4. **If all is Normal** - Climb out at 85MPH to at least 500’AGL before making any turns.
5. **Questions or Concerns?**

Normal Takeoff

Flaps.....UP
Throttle..... “Max Power”
Engine Instruments..... “Green”
Airspeed.....“Alive”
Rotate.....60MPH
Climb.....85MPH(Dash to Horizon)

Short Field Takeoff

Flaps.....25°
Brakes.....Hold
Throttle..... “Max Power”
Engine Instruments..... “Green”
Brakes.....Release
Airspeed..... “Alive”
Rotate.....58MPH
Climb.....74MPH
Obstacles.....Clear
Climb.....85MPH
Flaps.....UP

Soft Field Takeoff

Flaps.....25°
Control Wheel.....Full Aft
Throttle.....Slowly Advance
Throttle..... “Max Power”
Engine Instruments..... “Green”
Airspeed..... “Alive”
Main Gear.....Lift Off ASAP
Ground Effect.....74MPH
Climb.....74MPH
Obstacles.....Clear
Climb.....85MPH
Flaps.....UP

CLIMB

Airspeed.....85MPH
 Above 1000' AGL....100MPH
Fuel Pump.....OFF
Engine Instruments.....Green
Landing Light.....As Desired

CRUISE

Throttle.....2200-2450RPM
Trim.....As Required
Mixture.....Lean As Required
Fuel Selector.....As Desired
Engine Instruments.....Green
Altimeter.....Check

DECENT/APPROACH

Weather.....Obtain
Altimeter.....Set
Fuel Selector.....Fullest
Mixture.....Adjust
Radios.....Tune/Set
Approach Briefing.....Complete

BEFORE LANDING

Seatbelts.....ON
Landing Light.....ON
Fuel Pump.....ON
Mixture.....Full Rich
Trim.....As Required

NORMAL LANDING

Flaps.....As Required (Below 115MPH)
Airspeed.....Downwind 100MPH
 Abeam.....90MPH 10° Flaps
 Base.....80MPH 25° Flaps
 Final.....75MPH 40° Flaps
Touch Down.....Main Gear First
Landing Roll.....Lower Nose Gently
Brakes.....Minimum Required

SHORT FIELD LANDING

Flaps.....FULL
Airspeed.....65MPH
Touchdown.....Main Gear First
Control Wheel.....Full Aft
Brakes.....Maximum
After Touchdown.....Flaps Up

SOFT FIELD LANDING

Flaps.....FULL
Airspeed.....65MPH
Touchdown.....Nose High w/ Power
Control Wheel.....Full Aft
Brakes.....None

Emergency Procedures

Engine Failure In Flight

Airspeed.....83MPH(Vg)

Best Field.....Identify

Checklist (if time allows)

Fuel Pump.....ON

Fuel Selector.....Switch

Mixture.....Rich

Throttle.....Adjust

Carb Heat.....ON

Primer.....In/Locked

Magnetos.....Check(L/R/Both)

Starter.....Engage

If doesn't start

Declare

Mayday.....ATC or 121.5
Squawk 7700

Exit

Fuel Selector.....OFF

Mixture.....Idle Cutoff

Throttle.....Idle

Carb Heat.....OFF

Magnetos.....OFF

Master Switch.....OFF

Passenger Brief.....Complete

Door.....Open Before Landing

Upon Landing.....Evacuate

Engine Fire In Flight

Fuel Selector.....OFF

Mixture.....Idle Cutoff

Mags.....OFF

Master Switch.....OFF

Cabin Heat/Air.....OFF

Airspeed.....Increase
up to Vne to extinguish flames

Forced Landing.....Execute

Engine Roughness

Carb Heat.....ON

Mixture.....Adjust for smooth ops

Fuel Pump.....ON

Fuel Selector.....Switch

Engine Gauges.....Check

Magnetos.....L/R/Both

Electrical Fire

Master Switch.....OFF

Vents.....Open

Cabin Heat/Air.....OFF

Circuit Breakers.....Check

Extinguisher.....Obtain

Land.....As soon as possible

Alternator Failure

Ammeter.....Confirm

Alternator Circuit Breaker.....Reset

Non-essential electrical.....OFF

Land.....As soon as possible