

3rd Step Flying Club Piper Cherokee PA-28-160 Checklist

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| <p><u>Before Start</u></p> <ol style="list-style-type: none"> 1. Preflight... Completed 2. <i>Parking Brake</i>... Set 3. Electrical Equipment... OFF 4. Circuit Breakers... IN 5. <i>Fuel Tank</i>... Fullest 6. <i>Master switch</i>... ON 7. <i>Beacon</i>... ON 8. <i>Mixture</i>... Enrichen 9. <i>Throttle</i>... ¼ inch Open 10. Carb Heat... Cold 11. <i>Ignition</i>... On (L Magneto) 12. Prime... As needed & locked 13. <i>Clear area</i>... Yell & Look Engine Start: 14. Starter... Engage <p><u>Start FIRE</u></p> <p><u>1. Starter...Continue Cranking</u></p> <p><u>2. Cont...</u> On back</p> | <p><u>Before Takeoff & Run-Up</u></p> <ol style="list-style-type: none"> 1. Frequency... Tower/CTAF&Dep SET 2. Brake... SET 3. <i>Flight Controls</i>... Checked 4. Trim... (neutral) <i>Checked & SET</i> 5. <i>Flight Instruments</i>... Checked 6. <i>Fuel Tank</i>... Fullest 7. <i>Mixture</i>... Rich 8. <i>Throttle</i>... 2000 RPM 9. <i>Magnetos</i>... Check both for Drops <i>*(125 individual, both within 50)</i> 10. Carb Heat... ON RPM Drop & OFF Rise 11. Vacuum... 5 PSI (+/- 0.2) 12. <i>Ammeter</i>... Checked 13. <i>Throttle</i>... Idle 14. Carb Heat... ON 5 secs then OFF Before Takeoff: 15. <i>Throttle</i>... 1000 RPM 16. <i>Flaps</i>... Checked & SET 17. <i>Fuel Pump</i>... ON <i>(check pressure increase)</i> 18. Brief PAX... As needed 19. Doors/Windows... Closed 20. Takeoff Briefing... (Includes) <i>(Runway, Vr, Vclimb, Flaps, Departure, Emergencies below)</i> | <p><u>After T/O / Climb / GA ~1000ft</u></p> <ol style="list-style-type: none"> 1. Airspeed... 85mph (75kts) Vy 2. Climb... Pitch up 3. Flaps... (+rate) 0 degrees UP 4. *Mixture... (above ~5000ft) <i>Lean</i> <p><u>Cruise</u></p> <ol style="list-style-type: none"> 1. <u>Pitch & Power</u> As needed 2. Fuel Pump... As needed 3. Landing Light... As Required 4. Fuel... Manage <p><u>Descent/Arrival</u></p> <ol style="list-style-type: none"> 1. Weather Info... Copied 2. <i>Flight Instruments</i>... SET 3. <i>Fuel Pump</i>... ON 4. Fuel... Fullest Tank 5. <i>Mixture</i>... Adjust 6. Carb Heat... As needed 7. <i>Safety Belts</i>... ON 8. <i>Arrival Briefing</i>... Completed |
| <p><u>After Start</u></p> <ol style="list-style-type: none"> 1. Magnetos... Both 2. <i>Throttle</i>... 1000 RPM 3. Oil Pressure... In Green <i>(within 15 seconds of start)</i> <p><u>Before Taxi</u></p> <ol style="list-style-type: none"> 1. Nav Lights/<i>ADS-B</i>... ON <i>(*down Day/up night*)(Center is Off)</i> 2. <i>Radios/Avionics</i>... ON <i>(Set Frequencies & FLT Plan)</i> 3. Transponder... ALT 4. Weather Info... Copied 5. <i>Flight Instruments</i>... SET 6. <i>Mixture</i>... Lean for Taxi 7. <i>Airport Diagram</i>... Out 8. Contact/Call... For Taxi 9. Brakes... Checked | <p><u>Cleared For Takeoff/Line-Up Flow</u></p> <p><u>Runway HDG Verified outside & inside</u></p> <p><u>Landing Light ON</u></p> <p><u>Strobe light ON</u></p> <p><u>Transponder ALT & good squawk code</u></p> <p><u>Mixture SET for takeoff</u></p> <p><u>Fire / Failure During Takeoff Roll</u></p> <p><u>1. Throttle...</u> Idle</p> <p><u>2. Brakes...</u> Apply & Stop</p> <p>3. Mixture... Idle Cutoff</p> <p>4. Magnetos... Off</p> <p>5. Master Switch... Off</p> | <p><u>Before Landing</u></p> <ol style="list-style-type: none"> 1. <i>Fuel Pump</i>... ON 2. Fuel... Fullest Tank 3. <i>Mixture</i>... Enrichen 4. Carb Heat... As needed 5. <i>Landing Light</i>.. when clear ON <p><u>After Landing</u></p> <ol style="list-style-type: none"> 1. Flaps... UP 0 degrees 2. <i>Landing light / strobe</i>... OFF 3. <i>Fuel Pump</i>... OFF 4. Carb Heat... OFF 5. <i>Mixture</i>... Lean for Taxi 5. <i>Contact/Call</i>... For Taxi |
| <p><u>During Taxi Flow</u></p> <p>Taxi Instrument Check:</p> <p><u>Attitude- Level within 5 degrees</u></p> <p><u>Turn Coordinator- Plane bank with turn;</u></p> <p><u>Ball- opposite turn</u></p> <p><u>Compass & Heading- move with turn</u></p> | <p><u>Engine Failure After Takeoff</u></p> <p><u>1. Airspeed...</u> 80mph (69kts)</p> <p><u>2. Best Landing Spot....</u> Declare</p> <p><u>3. Fuel Selector...</u> Switch Tank</p> <p><u>4. Fuel Pump...</u> ON</p> <p><u>5. Magnetos...</u> Check</p> <p><u>6. Carb Heat...</u> Apply</p> <p><u>7. Mixture...</u> Adjust</p> | <p><u>Shutdown/Securing</u></p> <ol style="list-style-type: none"> 1. <i>Brake</i>... Set 2. Electrical Equipment... OFF <i>(except; audio panel, beacon, master)</i> 3. <i>Magneto Grnd</i>... off/on Check 4. <i>Mixture</i>... Idle 5. Magnetos... OFF 6. Beacon... OFF 7. Master... OFF 8. <i>Tie-downs</i>... Complete 9. <i>Controls</i>... Seat belt Lock 10. <i>Times</i>... (in book & online) |

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| <p><u>Pre-flight Inspection</u></p> <p>Cockpit:</p> <ol style="list-style-type: none"> 1. Aircraft & Pilot Docs... Check "ARROW PEC" & Cert, ID, Med 2. Inspections... Up-to-Date 3. Equipment... None Req. Inop 4. Master Switch... ON 5. Lights... ON/Check/OFF 6. Fuel Gauges... Check 7. Master Switch... OFF <p>Exterior:</p> <ol style="list-style-type: none"> 8. Right Wing, Gear, Tire, Sump Fuel, Check Tank 9. Nose Gear... Check 10. Engine Oil... MIN 7 QTS 11. Cowling & Propeller 12. Gascolator... Sump 13. Left Wing, Gear, Tire, Sump Fuel, Check Tank 14. Pitot Tube/Mast... Check 15. Stall Warning Tab... Check 16. Fuselage... Check (static ports) 17. Rudder & Stabilator 18. Baggage Door... Closed <p><u>Vspeeds</u></p> <p><u>Vr-65mph (55kts) Rotation Speed</u></p> <p><u>Vx-75mph (65kts) Best Angle Climb</u></p> <p><u>Vy-85mph (75kts) Best Rate Climb</u></p> <p><u>Vso- 46mph (40kts) Stall Landing</u></p> <p><u>Vs- 55mph (48kts) Stall Clean</u></p> <p><u>Vfe-115mph (99kts) Max. Flap</u></p> <p><u>Vg-80mph (69kts) Best Glide</u></p> <p><u>Va-129mph (112kts) Va (@ Max. Weight)</u></p> <p><u>Vno-140mph (121kts) Max.Cruise</u></p> <p><u>Vne-170mph (148kts) Never Exceed</u></p> <p><u>Plane Info</u></p> <p>Engine- Lycoming O-320, 4 Cylinder, Horizontally Opposed, Air Cooled, Direct Drive, Carbureted, 160HP</p> <p>Fuel- 100 or 100L; ~9GPH</p> <p>Weight- Max. Gross 2200 lbs</p> | <p><u>Engine Failure During Flight</u></p> <ol style="list-style-type: none"> 1. <u>Airspeed & Trim... 80mph (69kts)</u> 2. <u>Best Landing Spot... Select</u> 3. Fuel Selector... Switch Tank 4. Primer pump... In/Locked 5. Fuel Pump... ON 6. Ignition Switch... (L, R, Both) ON 7. Carb Heat... ON 8. Mixture... Adjust <p>*If it fails due to running out of fuel in the tank, can take up to 10 seconds to get fuel from the other tank in the line after switching.*</p> <p><i>*If no engine power is restored then...</i></p> <p><u>Landing Without Power</u></p> <ol style="list-style-type: none"> 1. <u>Declare... On Freq or 121.5</u> 2. <u>Transponder... 7700</u> 3. <u>Evacuation Plan... Briefed</u> <p>Shutdown & Securing the Engine:</p> <ol style="list-style-type: none"> 4. Landing... Approach Normal 5. Mixture... Idle cutoff 6. Fuel Selector... OFF 7. Ignition Switch... OFF <p>Before Ground Impact:</p> <ol style="list-style-type: none"> 8. Master Switch... OFF 9. Door... Unlatch 10. Flaps... Full <p><u>Inadvertent Spin Recovery</u></p> <ol style="list-style-type: none"> 1. <u>Power... Idle</u> 2. <u>Rudder... Full Opposite</u> 3. <u>Elevator... Full Forward</u> 4. <u>Ailerons... Neutral</u> 5. Rudder... Neutral (when spin stops) 6. Control... Regain Level Flight <p><u>Contacts</u></p> <p>Maintenance Issues/Squawks:</p> <p>Doug: (602)790-7240 Dale: (602)694-3083</p> <p>3rd Step Management and Info:</p> <p>Laurie: (602)740-3942</p> <p>https://fly3rdstep.club/</p> <p>Checklist & Standard Ops Procedures</p> <p>Jakob: (845)514-7669</p> | <p><u>Engine FIRE (In-Flight)</u></p> <ol style="list-style-type: none"> 1. Fuel Selector... OFF 2. Throttle... Closed 3. Mixture... Idle cutoff 4. Carb Heat... OFF 5. Defroster/CabinHeat... OFF 6. Airspeed.. Increase to 138mph (120kts) to put out fire 7. If Fire Extinguished... → <p><u>Landing without Power Checklist</u></p> <p><u>Engine FIRE (On-Ground)</u></p> <ol style="list-style-type: none"> 1. <u>Starter... Crank</u> <p>*If the engine starts...</p> <ol style="list-style-type: none"> 2. Throttle... 1800 RPM (for 2mins) 3. Engine... Shutdown 4. Fuel Selector... OFF 5. Master Switch... OFF 6. Ignition Switch... OFF <p>*If Engine Fails To Start...</p> <ol style="list-style-type: none"> 7. Engine... Secure 8. Passengers... Evacuate 9. Mixture... Idle 10. Master Switch... OFF 11. Ignition Switch... OFF 12. Fuel Selector... OFF 13. Fire... Extinguish <p><u>Electrical FIRE (In-Flight)</u></p> <ol style="list-style-type: none"> 1. <u>Master Switch... OFF</u> 2. Cabin Heat & Air... OFF 3. Window Vent... Open 4. Door... Unlatch (if smoke) <p><u>Land as soon as Possible</u></p> <p><u>Wing FIRE</u></p> <ol style="list-style-type: none"> 1. <u>Side Slip... Keep Away Fire</u> <p>*Rudder Into Fire Side</p> <ol style="list-style-type: none"> 2. Strobe Light... OFF 3. Nav Lights... OFF <p><u>Land as soon as Possible</u></p> |
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Checklist Usage: This is meant to be a read & do checklist in the airplane. The only flows are "During Taxi Flow" which should be done while taxiing & "Cleared For Takeoff/Line-Up Flow" done while being cleared onto a runway. Normal Procedure is in regular font;

Emergency Procedure is with FIRE Procedures. **Items Underlined & in Bold Should be Memorized & May Be Verified After with the Checklist.**

"ARROW PEC" (Airworthiness, Registration, Radio License, Operating Handbook, Weight & Balance, Placards, External Data Plate, Compass Deviation Card)