

Preflight

Interior

Garmin D2 Charlie 3	<i>Fly Mode</i>
Passengers	<i>Brief</i>
Circuit Breakers	<i>In</i>
Alternate Static	<i>Check Closed</i>

Start

Seat Track & Back	<i>Locked</i>
Brakes	<i>Pedal Test</i>
Avionics	<i>Off</i>
Auto-pilot	<i>Off</i>
Carb Heat	<i>Off</i>
Cowl Flaps	<i>Open</i>
Beacon	<i>On</i>
Mixture	<i>Full Rich</i>
Prop	<i>High RPM</i>
Throttle	<i>Slight</i>
Prime	<i>As Required</i>
Brakes	<i>Set</i>
Prop	<i>Clear</i>
Master	<i>On</i>
Mags	<i>Start</i>
Oil Pressure	<i>Check</i>
Lights	<i>As Required</i>
Mixture	<i>As Required</i>

Taxi

Seat Belts & Harness	<i>Secure</i>
Flaps	<i>Up</i>
Heat, Vent & Defrost	<i>As Required</i>
Avionics	<i>On & Set</i>
Transponder	<i>Alt + Squawk</i>
Altimeter	<i>Set</i>
Radio	<i>Test</i>

Comments

Class D

Call Ground

Class B, C

Call Clearance

Call Ground

Taxi Light	<i>As Required</i>
Brakes	<i>Test</i>
Heading Indicator & Compass	<i>Test</i>
Attitude Indicator	<i>Test</i>
Turn Coordinator	<i>Test</i>
Low RPM	<i>Mag Check</i>

Run-up

Brakes	<i>Set</i>
Fuel	<i>Both</i>
Trim	<i>Takeoff</i>
Flight Controls	<i>Free & Correct</i>
Instruments	<i>Check</i>
Mixture	<i>Best Power</i>

Primer	<i>In & Locked</i>
1700 RPM	<i>Set</i>
Mags (Right & Left)	<i>Test</i>

Comments

+/-50 RPM

Prop	<i>Cycle</i>
Carb Heat	<i>Test for 10 seconds</i>
Vacuum	<i>Check</i>
Amps & Volts	<i>Check</i>
Oil Pressure	<i>Check</i>
Oil Temp	<i>Check</i>
Idle	<i>Check Closed</i>
Throttle Friction	<i>Lock</i>

Inflight

Pre-Takeoff

Flaps	<i>0° - 20°</i>
Prop	<i>High RPM</i>
Mixture	<i>Best Power</i>
Carb Heat	<i>Off or As Required</i>
Pitot Heat	<i>As Required</i>
Heading Indicator To Compass Set	
Doors	<i>Close & Lock</i>
Windows	<i>Close & Lock</i>
AC	<i>Off</i>
Transponder	<i>Alt + Squawk</i>
Landing Light	<i>On</i>
Strobes	<i>On</i>
Time	<i>Note</i>
Brakes	<i>Release</i>
Abort Plan	<i>Ready !!</i>
Garmin D2 Charlie	<i>Start</i>

Takeoff

Full Throttle	<i>2600 RPM (Max)</i>
Manifold Pressure	<i>Check</i>
Oil Pressure	<i>Check</i>
Rotate	<i>52 KIAS</i>
VY	<i>77 KIAS</i>
Flaps	<i>Up</i>

Climb

Climb	<i>87-96 KIAS</i>
Throttle	<i>23" MP</i>
Prop	<i>2450 RPM</i>
Mixture	<i>As Required</i>
Cowl Flaps	<i>Open</i>
Instruments	<i>Check</i>
Taxi & Landing Light	<i>Off</i>
Flight Plan	<i>Open</i>

Cruise

Throttle	<i>Set</i>
Prop	<i>Set</i>
Mixture	<i>Set</i>
Instruments	<i>Check</i>
Cowl Flaps	<i>Close</i>
Heading Indicator To Compass Set	
7500' 54% 121 KIAS	<i>19"-2200 RPM-10.2 GPH</i>
7500' 62% 129 KIAS	<i>20"-2300RPM-11.6GPH</i>
7500' 71% 136 KIAS	<i>21"-2450 RPM-13.1 GPH</i>

Descent

Throttle	<i>Manifold As Required</i>
Mixture	<i>Richen</i>
Cowl Flaps	<i>Close</i>
Fuel	<i>Both</i>
Carb Heat	<i>As Required</i>
ATIS & AWOS	<i>Note</i>
Altimeter	<i>Set</i>
Instruments	<i>Check</i>

Heading Indicator To Compass Set

Pre-Landing

Landing Light	<i>On</i>
Auto-pilot	<i>Off</i>
AC	<i>Off</i>
Seat Belt & Harness	<i>Secure</i>
Mixture	<i>Best Power</i>
Carb Heat	<i>On</i>
Fuel	<i>Both</i>
Flaps	<i>As Required</i>

Landing

Flaps	<i>40° Or As Required</i>
Prop	<i>High RPM</i>
Speed	<i>70 KIAS</i>
GUMPS	<i>Check Fuel Valve, Mixture Full, Prop Set, Seatbelts & Switches</i>

Go-Around

Trim	<i>Takeoff</i>
Power	<i>Full</i>
Carb Heat	<i>Off</i>
Positive Rate Climb	<i>Confirm</i>
Flaps Up	<i>Retract Slowly</i>
Cowl Flaps	<i>Open</i>

Postflight

After Landing

Flaps	<i>Up</i>
Carb Heat	<i>Off</i>
Cowl Flaps	<i>Open</i>
Strobes	<i>Off</i>
Landing Light	<i>Off</i>
Taxi Light	<i>As Required</i>
Pitot Heat	<i>Off</i>
Trim	<i>Takeoff</i>
Transponder	<i>Alt + Squawk</i>

Securing

E.L.T.	<i>Verify Silent</i>
Lights	<i>Off</i>
Garmin D2 Charlie	<i>Stop</i>
Avionics	<i>Off</i>
Mixture	<i>Full Lean</i>
Mags	<i>Off</i>
Master	<i>Off</i>
Fuel	<i>Left or Right</i>
Cowl Flaps	<i>Closed</i>
Control Lock	<i>Install</i>
Chocks	<i>In</i>
Tie Downs	<i>Secure</i>
Pitot Cover	<i>Install</i>
Baggage Door	<i>Secure</i>
Cabin Doors	<i>Secure</i>
Flight Plan	<i>Close</i>

Be Safe!!!

Emergency

Power Loss On Takeoff

Abort If Have Runway Distance	
Maintain Aircraft Control	<i>Safe Airspeed</i>
Best Glide (Full Gross)	<i>70 KIAS</i>
Fuel Selector	<i>Off</i>
Mixture	<i>Full Lean & Idle Cutoff</i>
Flaps	<i>Down</i>
Master & Mags	<i>Off</i>
Cabin Doors	<i>Unlatch</i>

Power Loss Inflight

Maintain Speed	<i>Keep Aircraft Control</i>
Best Glide (Full Gross)	<i>70 KIAS</i>
Carb Heat	<i>On</i>
Note Wind	<i>Direction & Velocity</i>
Pick Landing Site	<i>Select</i>
Mixture	<i>Full Rich</i>
Fuel Selector	<i>Check Switch on Both</i>
Fuel Primer	<i>Locked (Try Reprime)</i>
Magnetos	<i>Check All</i>
Master	<i>On</i>

No Restart with Time

Best Glide (Full Gross)	<i>70 KIAS</i>
Prop	<i>Low RPM & Full Aft</i>
Squawk	<i>7700</i>
Declare Emergency	<i>TWR, APP, 121.5</i>
Fuel Selector	<i>Off</i>
Mixture	<i>Full Lean & Idle Cutoff</i>
Seatbelts & Harness	<i>Secure</i>
Flaps	<i>Full Or As Needed</i>
Master & Mags	<i>Off</i>
Unlatch	<i>Doors</i>
Protect Body	<i>Use Soft Objects</i>

Electrical Fire

All Electrical & Master	<i>Off (Mags On)</i>
Cabin Heat & Air	<i>Off</i>

If Fire Out

Master	<i>On If Critical</i>
Vents	<i>Open</i>
Electrical	<i>On One At A Time</i>
Circuit Breaker	<i>Reset If Critical</i>

Engine Fire On Startup

Engine	<i>Continue Cranking</i>
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If Start

Run	<i>Only A Few Seconds</i>
Then	<i>Shutdown & Inspect</i>

If No Start

Mixture	<i>Full Lean & Idle Cutoff</i>
Fuel Selector	<i>Off</i>
Throttle	<i>Full Open</i>
Continue Cranking Eng	<i>For A Few Seconds</i>
Master & Mags	<i>Off</i>
Evacuate	<i>A.S.A.P.</i>
Fire Extinguisher	<i>As Required</i>

Engine Fire Inflight

Mixture	<i>Full Lean & Idle Cutoff</i>
Fuel Selector	<i>Off</i>
Master	<i>Off</i>
Cabin Heat & Air	<i>Off Except Ovrhd Vents</i>
Increase Speed	<i>To Extinguish</i>
Land	<i>A.S.A.P.</i>

Icing

Pitot Heat	<i>On</i>
Carb Heat	<i>On</i>
Cabin Heat & Defrost	<i>Maximum</i>
Strongly Consider	<i>180° Turn</i>
Change Altitude	<i>Higher or Lower</i>
Engine & Prop Speed	<i>Increase</i>
Flaps	<i>Not Rec. For Landing</i>
Land Faster	<i>As Needed</i>

Excess Charge

ALT CB	<i>Pull</i>
Non-Essential Electrical	<i>Off</i>
Master	<i>Off (Mags On)</i>
Land A.S.A.P.	<i>BATT only</i>

Low Voltage

Avionics	<i>Off</i>
ALT CB	<i>In</i>
Master	<i>Off Then On</i>
Check Volt Light	<i>Off</i>

If Low Voltage Again

ALT	<i>Off</i>
Non-Essential Electrical	<i>Off</i>
Land A.S.A.P.	<i>BATT only</i>

Radio Out

Circuit Breaker	<i>Check</i>
Volume	<i>Check</i>
ALT Switch	<i>Recycle</i>
IFR & Still Out	<i>Squawk 7600</i>
VFR B,C,D Airspace	<i>Squawk 7600</i>