

Preflight

Interior

Garmin D2 Charlie 3 *Fly Mode*
 Passengers *Brief*
 Circuit Breakers *In*
 Alternate Static *Check Closed*

Start

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

Taxi

Seat Belts & Harness *Secure*
 Flaps *Up*
 Heat, Vent & Defrost *As Required*
 Avionics *On & Set*

Transponder *Alt + Squawk*

Altimeter *Set*

Radio *Test*

Comments
Class D
 Call Ground

Class B, C
 Call Clearance
 Call Ground

Taxi Light *As Required*

Brakes *Test*

Heading Indicator & Compass *Test*

Attitude Indicator *Test*

Turn Coordinator *Test*

Low RPM *Mag Check*

Run-up

Brakes *Set*

Fuel *Both*

Trim *Takeoff*

Flight Controls *Free & Correct*

Instruments *Check*

Mixture *Best Power*

Primer *In & Locked*

1700 RPM *Set*

Mags (Right & Left) *Test*

Comments
 +/-50 RPM

Prop *Cycle*

Carb Heat *Test for 10 seconds*

Vacuum *Check*

Amps & Volts *Check*

Oil Pressure *Check*

Oil Temp *Check*

Idle *Check Closed*

Throttle Friction *Lock*

Inflight

Pre-Takeoff

Flaps *0° - 20°*

Prop *High RPM*

Mixture *Best Power*

Carb Heat *Off or As Required*

Pitot Heat *As Required*

Heading Indicator To Compass *Set*

Doors *Close & Lock*

Windows *Close & Lock*

AC *Off*

Transponder *Alt + Squawk*

Landing Light *On*

Strobes *On*

Time *Note*

Brakes *Release*

Abort Plan *Ready !!*

Garmin D2 Charlie *Start*

Takeoff

Full Throttle *2600 RPM (Max)*

Manifold Pressure *Check*

Oil Pressure *Check*

Rotate *52 KIAS*

VY *77 KIAS*

Flaps *Up*

Climb

Climb *87-96 KIAS*

Throttle *23" MP*

Prop *2450 RPM*

Mixture *As Required*

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 <i>Set</i>
7500' 54% 121 KIAS 19"-2200 RPM-10.2 GPH
7500' 62% 129 KIAS 20"-2300RPM-11.6GPH
7500' 71% 136 KIAS 21"-2450 RPM-13.1 GPH

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 <i>Set</i>

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 *Off (Mags On)*

Cabin Heat & Air *Off*

If Fire Out

Master *On If Critical*

Vents *Open*

Electrical *On One At A Time*

Circuit Breaker *Reset If Critical*

Engine Fire On Startup

Engine *Continue Cranking*

If Start

Run *Only A Few Seconds*

Then *Shutdown & Inspect*

If No Start

Mixture *Full Lean & Idle Cutoff*

Fuel Selector *Off*

Throttle *Full Open*

Continue Cranking Eng *For A Few Seconds*

Master & Mags *Off*

Evacuate *A.S.A.P.*

Fire Extinguisher *As Required*

Engine Fire Inflight

Mixture *Full Lean & Idle Cutoff*

Fuel Selector *Off*

Master *Off*

Cabin Heat & Air *Off Except Ovrhd Vents*

Increase Speed *To Extinguish*

Land *A.S.A.P.*

Icing

Pitot Heat *On*

Carb Heat *On*

Cabin Heat & Defrost *Maximum*

Strongly Consider *180° Turn*

Change Altitude *Higher or Lower*

Engine & Prop Speed *Increase*

Flaps *Not Rec. For Landing*

Land Faster *As Needed*

Excess Charge

ALT CB *Pull*

Non-Essential Electrical *Off*

Master *Off (Mags On)*

Land *A.S.A.P. BATT only*

Low Voltage

Avionics *Off*

ALT CB *In*

Master *Off Then On*

Check Volt Light *Off*

If Low Voltage Again

ALT *Off*

Non-Essential Electrical *Off*

Land *A.S.A.P. BATT only*

Radio Out

Circuit Breaker *Check*

Volume *Check*

ALT Switch *Recycle*

IFR & Still Out *Squawk 7600*

VFR B,C,D Airspace *Squawk 7600*