

## 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 *Open*

Instruments *Check*

Taxi & Landing Light  
*Off*

Flight Plan *Open*

### Cruise

Throttle *Set*

Prop *Set*

Mixture *Set*

Instruments *Check*

Cowl Flaps *Close*

Heading Indicator To  
Compass *Set*

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 *Manifold As Required*

Mixture *Richen*

Cowl Flaps *Close*

Fuel *Both*

Carb Heat *As Required*

ATIS & AWOS *Note*

Altimeter *Set*

Instruments *Check*

Heading Indicator To  
Compass *Set*

### Pre-Landing

Landing Light *On*

Auto-pilot *Off*

AC *Off*

Seat Belt & Harness  
*Secure*

Mixture *Best Power*

Carb Heat *On*

Fuel *Both*

Flaps *As Required*

### Landing

Flaps *40° Or As Required*

Prop *High RPM*

Speed *70 KIAS*

GUMPS *Check Fuel Valve, Mixture Full, Prop Set, Seatbelts & Switches*

### Go-Around

Trim *Takeoff*

Power *Full*

Carb Heat *Off*

Positive Rate Climb  
*Confirm*

Flaps Up *Retract Slowly*

Cowl Flaps *Open*

## Postflight

### After Landing

Flaps *Up*

Carb Heat *Off*

Cowl Flaps *Open*

Strobes *Off*

Landing Light *Off*

Taxi Light *As Required*

Pitot Heat *Off*

Trim *Takeoff*

Transponder *Alt + Squawk*

### Securing

E.L.T. *Verify Silent*

Lights *Off*

Garmin D2 Charlie  
*Stop*

Avionics *Off*

Mixture *Full Lean*

Mags *Off*

Master *Off*

Fuel *Left or Right*

Cowl Flaps *Closed*

Control Lock *Install*

Chocks *In*

Tie Downs *Secure*

Pitot Cover *Install*

Baggage Door *Secure*

Cabin Doors *Secure*

Flight Plan *Close*

Be Safe!!!

## Emergency

### Power Loss On Takeoff

Abort If Have Runway Distance

Maintain Aircraft Control *Safe Airspeed*

Best Glide (Full Gross) *70 KIAS*

Fuel Selector *Off*

Mixture *Full Lean & Idle Cutoff*

Flaps *Down*

Master & Mags *Off*

Cabin Doors *Unlatch*

### Power Loss Inflight

Maintain Speed *Keep Aircraft Control*

Best Glide (Full Gross) *70 KIAS*

Carb Heat *On*

Note Wind *Direction & Velocity*

Pick Landing Site *Select*

Mixture *Full Rich*

Fuel Selector *Check Switch on Both*

Fuel Primer *Locked (Try Reprime)*

Magnetos *Check All*

Master *On*

### No Restart with Time

Best Glide (Full Gross) *70 KIAS*

Prop *Low RPM & Full Aft*

Squawk *7700*

Declare Emergency *TWR, APP, 121.5*

Fuel Selector *Off*

Mixture *Full Lean & Idle Cutoff*

Seatbelts & Harness *Secure*

Flaps *Full Or As Needed*

Master & Mags *Off*

Unlatch *Doors*

Protect Body *Use Soft Objects*

### 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*