

## NORMAL CHECKLIST

### PRE-FLIGHT

#### CABIN

Documents .....AROW  
 Control Lock ..... Remove  
 Ignition Switch .....OFF  
 Master Switch ..... ON  
 Fuel Quantity ... Check level  
 Flaps .....Down  
 Master Switch .....OFF

#### LEFT FUSELARGE

Baggage Door...Lock w/ Key

#### EMPENNAGE

Control Surfaces ..... Check  
 Tail Tie Down .... Disconnect

#### Right Wing

Flap ..... Check  
 Aileron ..... Check free  
 Wing Tie-down .. Disconnect  
 Main wheel tire ..... Check  
 Fuel Sump ..... Drain/Check  
 Fuel Qty ..... Check Visually

#### Nose

Oil ..... Check level  
 Fuel Strainer ..... Pull & test  
 Prop & Spinner ..... Check  
 Air Inlets ..... Check  
 Carb Air Filter ..... Check  
 Nose Wheel ..... Check  
 Static Source ..... Check

#### Left Wing

Fuel Qty ..... Check Visually  
 Pitot Tube ..... Check  
 Stall Warning ..... Check  
 Wing Tiedown ... Disconnect  
 Aileron ..... Check free  
 Flap ..... Check  
 Main wheel tire ..... Check  
 Fuel Sump ..... Drain/Check

### BEFORE ENGINE START

Preflight inspection ... Done  
 Seats & Belts .... Adjust/lock  
 Electrical & Avionics ....OFF  
 Breakers ..... Check/IN  
 Fuel Selector ..... Both

### STARTING ENGINE

Prime ..... 1-3 times  
 Carb Heat ..... OFF/Cold  
 Throttle ..... Open ½ “  
 Mixture ..... Rich  
 Propeller Area ..... Clear  
 Master Switch ..... ON  
 Beacon ..... ON  
 Ignition ..... Start  
 Throttle .. 1000 RPM or less  
 Oil Pressure ..... Check  
 Mixture ..... 1” Lean  
 Flaps ..... UP  
 Avionics ..... ON  
 Transponder ..... Stand By  
 ATIS ..... Obtain Info  
 Radio ..... Call

### RHV FREQUENCIES

ATIS ..... 125.2  
 Ground ..... 121.65  
 Tower ..... 119.8

### BEFORE TAKEOFF

Seats & Belts .... Adjust/lock  
 Doors & Windows .... Closed  
 Flight Controls ..... Correct  
 Flight Instruments ..... Check  
 Primer ..... In & locked  
 Fuel Quantity ..... Check  
 Fuel Selector ..... Both  
 Mixture ..... Rich below 3000’  
 Trim ..... set for takeoff  
 Throttle ..... 1700 RPM  
 Magnetos ..... Check  
 ..... <125 Max Drop  
 ..... <50 Max Difference  
 Carb Heat ..... ✓ RPM Drop  
 Suction Gauge .. ✓ in Green  
 ..... (4.3”-5.4”)  
 Ammeter ..... Check  
 Throttle .. 1000 RPM or less  
 Radios ..... Set  
 Flaps ..... Set for takeoff  
 Transponder ..... ALT  
 Lights ..... As Needed

### IFR DEPARTURE

Pitot Heat ..... ON  
 Nav Radios ..... SET  
 Altimeter ... Check within 75’  
 VOR ..... Verify Tested  
 Transponder ..... Code Set

### TAKEOFF

Flaps ..... 0-10°  
 Carb Heat ..... OFF/Cold  
 Mixture ..... Rich  
 Transponder ..... ALT  
 Throttle ..... Full Open  
 Rotate ..... 55  
 Climb ..... V<sub>y</sub> 73

### V-SPEEDS (KIAS)

V<sub>x</sub> ..... 60  
 V<sub>y</sub> ..... 73  
 V<sub>r</sub> ..... 55  
 V<sub>fe</sub> ..... 85  
 V<sub>ne</sub> ..... 160  
 Best Glide ..... 65  
 Approach ..... 60-70  
 V<sub>a</sub> (max gross) ..... 97  
 ( 1950 lbs) ..... 89

### CRUISE

Power ..... Set  
 Trim ..... Set  
 Mixture ... As recommended  
 EGN Inst. .... Check  
 HDG ..... Set to MC

### IFR ARRIVAL

A-TIS  
 H-heading ✓ for precession  
 A-Itimer ..... Set  
 R-adios ..... Set Com/Nav  
 ..... +Front course  
 M-inimums/Missed/Markers

### BEFORE LANDING

Seats & Belts .... Adjust/lock  
 Fuel Selector ..... Both  
 Carb Heat ..... ON  
 Mixture ..... Rich  
 Landing Light ..... As needed

### LANDING

Airspeed ..... 60-70 KIAS  
 Flaps ..... As required

### AFTER LANDING

Landing Light ..... OFF  
 Carb Heat ..... OFF/Cold  
 Mixture ..... 1” Lean  
 Flaps ..... UP  
 Transponder ..... Standby  
 Trim ..... Set for T/O

### SHUTDOWN

Equipment ..... OFF  
 Radios & Avionics ..... OFF  
 Mixture ..... Idle Cutoff  
 Ignition ..... OFF  
 Master Switch ..... OFF

### SECURING

Wheel chocks ..... SET  
 Wing tie downs .... Connect  
 Tail Tie Down ..... Connect  
 Propeller .... Level & Inspect  
 Wheels/Brakes ..... Inspect  
 Visual Inspection ..... Done  
 Tach/HOBBS ..... Record  
 Squawks ..... Note if any  
 Tow bar ..... Stow  
 Trash ..... Remove all

## EMERGENCY CHECKLIST

### ENGINE FAILURE DURING TAKEOFF ROLL

Throttle ..... Idle  
Brakes ..... Apply  
Wing Flaps ..... Retract  
Mixture ..... Idle cut-off  
Ignition Switch ..... OFF

### ENGINE FAILURE AFTER TAKEOFF

Airspeed ..... 65 KIAS  
Mixture ..... Idle Cutoff  
Fuel Selector ..... OFF  
Ignition switch ..... OFF  
Wing flaps ..... As required  
Master Switch ..... OFF

### ENGINE FAILURE DURING FLIGHT

#### RESTART PROCEDURE

Airspeed ..... 65 KIAS  
Carb Heat ..... ON  
Primer ..... In & Locked  
Fuel Selector ..... Both  
Mixture ..... Rich  
Ignition ..... Check on Both  
..... Or start if prop stopped

### FORCED LANDING WITHOUT POWER

Seats/Belts ..... Secure  
Airspeed ..... 65 KIAS  
Mixture ..... Idle cutoff  
Fuel Selector ..... OFF  
Ignition switch ..... OFF  
Wing flaps ..... As required  
Master switch ..... OFF  
Doors ..... Unlatch prior to landing  
Touchdown ..... slightly tail low  
Brakes ..... Apply heavily

### LOW VOLTAGE LIGHT ILLUMINATES

Radios ..... OFF  
Master Switch ..... OFF(both sides)  
Master Switch ..... ON  
Low Voltage light ..... Check OFF  
If light is still on ..... TERMINATE FLIGHT

### FIRE ON GROUND

During start on ground ..... Continue cranking  
If engine starts ..... Power 1700 for 2 minutes  
Engine ..... Shutdown

#### *If engine fails to start*

Throttle ..... Full Open  
Mixture ..... Idle Cutoff  
Cranking ..... Continue  
Fire extinguisher ..... Use

#### *Secure engine*

Master Switch ..... OFF  
Ignition ..... OFF  
Fuel Shutoff valve ..... OFF  
Fire extinguisher ..... USE

### ENGINE FIRE IN FLIGHT

Mixture ..... Idle Cut OFF  
Fuel Selector ..... OFF  
Master Switch ..... OFF  
Cabin Vents & Heat (except wing vents) ..... Closed  
Airspeed ..... 100 KIAS  
Forced Landing ..... Execute

### CABIN FIRE

Master Switch ..... OFF  
Vents/Cabin/Heat ..... Closed  
Fire extinguisher ..... Activate  
Land ASAP and inspect damage

### ELECTRICAL FIRE IN FLIGHT

Master ..... OFF  
Vents/Cabin Air/Heat ..... Closed  
All switches *except ignition* ..... OFF  
Master ..... each component ON one at a time

### WING FIRE

Navigation Light Switch ..... OFF  
Pitot Heat ..... OFF  
Side slip .... keep flames away from cabin & fuel tanks  
Land use flaps only as required for final & touchdown

### ELECTRICAL POWER SUPPLY MALFUNCTIONS

#### *Ammeter shows excessive rate of charge*

Alternator ..... OFF  
Non-essential electrical equipment ..... OFF  
Flight ..... Terminate