

ENGINE START

Preflight Complete
Passenger Brief ... Complete
 Seat Adjust
 Brakes Check

 Ignition Off
 Fuel Shutoff Open (In)
 Throttle **Cracked < 1/8"**
 Carb Heat Cold (In)
 Prime Engine ... **< 2 Strokes**
 **4-6 strokes in cold weather*
 Primer Closed & Locked
 Brakes/Tail Set/Tie Down
Propeller:
 Rotate ... Pull thru **8 Blades**
 Set Just prior to Firing

 Propeller Area "CLEAR"
 Ignition Both
 Propeller Pull thru to Start
 Throttle **1000 RPM**
 Oil Press 20 PSI (**< 20 sec**)
 Seatbelts On & Locked
 Doors/Windows As Des'd

TAXI

Weather Note
 Altimeter ... Set to Field Elev
 Mag Compass Correct
 Fuel Gage Correct
 Oil Pressure ... **30 PSI (min)**
 Carb Heat Cold (In)
 -- *Taxi Check* --
 Brakes Test
 Mag Compass Rotating

RUN-UP

Direction Face into Wind
 Brakes Set
 Doors/Windows As Des'd
 Controls ... Free/Correct, Aft
 Instruments -----
 Mag Compass Correct
 Altimeter Field Elevation
 Gas -----
 Primer In & Locked
 Fuel Gage Correct
 Fuel Shutoff Open (In)
 Attitude -----
 Trim Set for Takeoff
 Run-up ----- **1700 RPM**
 Oil Press **30 PSI (min)**
 Oil Temp **100° (min)**
 **May take longer in cold wx*
 Carb Heat **> 75 RPM Drop**
 Magnetos Test
 **RPM drop < 100 ea*
 Throttle RPM Check
 **Full > 2040 / Idle < 800*

BEFORE TAKEOFF

Instr/Radios -- Set Departure
 Mag Compass ... Rwy Hdg
 Altimeter Set Field Elev
 Takeoff Time Note
 Safety & Switches -----
 Doors/Windows ... Close/Lock
 Seatbelts On & Locked
 Loose Items Stowed
 Takeoff Brief Complete
 Safety Brief Complete

TAKEOFF

Throttle Full (**>2040 RPM**)
 Rotate **40(vr) MPH**
 Climb **60(vy) / 50(vx) MPH**

CLIMB

Throttle Full
 Speed **60(vy) MPH**
 **70-80 MPH (enroute)*

LEVEL-OFF & CRUISE

Power **2150 RPM**
 **Recommended*
 Engine Instruments --- Check
 Oil Press **> 30 PSI**
 Oil Temp **> 100°**
 Fuel Quantity Check
 Fuel Shutoff Open (In)

DESCENT

Power As Des'd
 Carb Heat As Req'd

APPR & LANDING

Carb Heat Full Hot (Out)
 **Prior to idle power*
 Fuel Shutoff Open (In)
 Safety & Switches -----
 Doors/Windows ... Close/Lock
 Seatbelts On & Locked
 Loose Items Stowed

 Initial Approach **70 MPH**
 Final **60 MPH** (+1/2 gust)

GO-AROUND

Throttle Full
 Carb Heat Cold (In)
 Climb Rate Positive

AFT LDG / SHUTDOWN

Carb Heat Cold (In)

 Throttle Idle
 Fuel Shutoff Closed (Out)
 Prop Rotation Stopped
 Ignition Off
 Tach Time Record
 CrewChief App ...
 ... +Add "New Flight Log"
 Personal Items Remove
 Secure As Req'd
 Wheel Chocks In Place
 Wing/Tail Tie Downs ... Secure

ENGINE FAILURE

Best Glide **60 MPH**
 Landing Site Select
**Note wind direction & velocity*
 Fuel Shutoff **Open (In)**
 Carb Heat **Hot (Out)**
 Mags **Check L / R / Both**

-- IF NO RESTART --

execute EMERGENCY LANDING

ENG FIRE DURING START

If engine starts:

Power **1700 RPM** (1-3 mins)
 Engine **Shutdown & Inspect**
If engine fails to start:
 Throttle **Full**
 Fuel Shutoff **Close (Out)**
 Ignition **Off**

*** EVACUATE ***

ENGINE FIRE IN FLIGHT

Throttle **Idle**
 Fuel Shutoff **Close (Out)**
 Ignition **Off**
 Cabin Heat **Off**
 Airspeed **80-129 MPH**
**To extinguish flames*

execute EMERGENCY LANDING

EMERGENCY LANDING

ELT Turn On
 Seatbelts Secure
 Speed **60 MPH**
 Primer **In & Locked**
 Fuel Shutoff **Close (Out)**
 Ignition **Off**
After Landing Assured:

Doors **Unlatched**
 Approach **Low Speed**

**Slip to land (as req'd)*

ICING

Carb Heat **As Req'd**
 Cabin Heat **Full Open**
 Course and/or Altitude ... **Change**

**Find a better OAT*

ELEC/CABIN FIRE IN FLT

Cabin Heat **Closed**

*** TERMINATE FLIGHT ***

WING FIRE

Descent **Sideslip**
**Keep flames away from tank/cabin*

execute EMERGENCY LANDING

Airspeeds - MPH

TAKEOFF - DEPARTURE

V_r - Rotation - **40**
 V_x - Best Angle of Climb - **50**
 V_y - Best Rate of Climb - **60**
 Enroute Climb - **70-80**

STALLS - GLIDE

V_s - Stall - **40**
 Best Glide - **60**
**Glide Ratio 7:1*

LIMITATIONS

V_a - Maneuvering Speed - **80**
 V_{ne} - Never Exceed - **129**
 X-wind (max demo'd) - **15**

APPROACH - LANDING

Initial Approach **70 MPH** ----- Final Approach) **60 MPH**

