

START

Preflight Inspection COMPLETE
Time RECORD
Seats ADJUST
Seatbelts ON
Brakes TEST
Trim SET
Flaps UP
Fuel Selector LEAST FULL TANK
Circuit Breakers/Fuses CHECK
Panel Lights CHECK OFF
Prime AS REQUIRED
Mixture FULL RICH
Throttle ¼" OPEN
Carb Heat COLD
Switches AS REQUIRED
Controls FREE & CORRECT
Master/Alternator ON
Aux Fuel Pump TEST
Magnetos BOTH
Prop Area CLEAR
Starter Button DEPRESS

ENGINE FIRE DURING START

1. Starter Button ...HOLD DEPRESSED
Continue cranking the engine.

If Engine Starts:

2. Power2000 RPM (1 min.)
3. Engine SHUT DOWN

If Engine does NOT Start:

4. Starter Button ...HOLD DEPRESSED
5. Throttle..... FULL FORWARD
6. Mixture..... IDLE CUTOFF
7. Fuel Selector Valve..... OFF
8. Starter Button RELEASE
9. Master Switch OFF
10. Airplane.....EVACUATE
11. Fire EXTINGUISH

AFTER START

Throttle..... 800-1000RPM
Oil Pressure IN LIMITS
Mixture..... LEAN FOR TAXI
Flaps UP
Fuel Computer..... SET
"STEP" = ENTER, "AUTO" = CHANGE
Avionics Master ON
Transponder STBY/1200
Brakes.....TEST

RUN-UP

Trim SET
Flaps..... UP
Fuel Selector FULLEST
Primer IN/LOCKED
Mixture FULL RICH
Throttle 1800 RPM
Carb Heat..... CHECK
Ammeter TEST
Eng Instruments/Suction..... CHECK
Magnetos CHECK
Throttle IDLE, THEN 800-1000
Flight Instruments..... CHECK

BEFORE TAKEOFF

Lights AS REQUIRED
Transponder ALT
Aux Fuel Pump ON

CLIMB – At 1000' AGL

Aux Fuel Pump OFF
Lights AS REQUIRED
Eng. Instruments..... CHECK

CRUISE

Mixture LEAN
Eng. Instruments..... CHECK
Fuel CHANGE EVERY 30 MIN
Lights AS REQUIRED

BEFORE LANDING

Mixture RICH
Aux Fuel Pump ON
Lights AS REQUIRED
Seatbelts..... ON

AFTER LANDING

Lights AS REQUIRED
Transponder STANDBY/1200
Aux Fuel Pump OFF
Mixture LEAN
Flaps..... UP

SHUTDOWN

Avionics master OFF
Lights/Panel lights AS REQ/OFF
Mixture IDLE CUTOFF
Magnetos/Master OFF
Control lock INSTALL

ENGINE FAILURE AFTER TAKEOFF

1. Pitch down to Best Glide or Landing Speed (as appropriate)..... ESTABLISH
2. Flaps AS REQUIRED
If time permits:
3. Magnetos OFF
4. Master Switch..... OFF
5. Throttle IDLE
6. Fuel Selector Valve OFF
7. Seat Belts/Shoulder Harness.SECURE

FORCED LANDING

1. Establish Best Glide 72-80 KIAS
2. RadioMAYDAY 121.5 MHz
3. Transponder..... SQUAWK 7700
4. Fuel Selector Valve OFF
5. Mixture OFF
7. Throttle IDLE
8. Fuel Pump OFF
9. Magnetos OFF
10. Flaps (when field is made) AS REQUIRED
11. Master Switch..... OFF
12. Seat Belts/ShoulderHarness SECURE
WARNING: Flaps will not operate when Master Switch is off.

ENGINE FAILURE IN FLIGHT

1. Best Glide 72-80 KIAS
2. Fuel Selector Valve SWITCH
3. Mixture RICH
4. Throttle ADJUST
5. Carb Heat..... ON
6. Fuel Pump ON
7. Magnetos CHECK BOTH
8. Starter (if prop stopped) ENGAGE
9. Throttle BEST OPERATION
10. Repeat steps 2 – 6 prop wind milling.
11. No Start Forced landing checklist.

ENGINE PARTIAL POWER LOSS

1. Conserve Altitude..... 72-80 KIAS
2. Fuel Selector..... SWITCH
3. Mixture ENRICHEN
4. Throttle ADJUST
5. Carb Heat..... ON
6. Magnetos CHECK BOTH
7. LAND...AS SOON AS PRACTICAL

ENGINE FIRE IN FLIGHT

1. Fuel Selector Valve..... OFF
2. Mixture..... IDLE CUTOFF
3. Throttle..... IDLE
4. Cabin Heat OFF
5. Fuel Pump OFF
6. Magnetos..... OFF
7. Perform Forced landing checklist
WARNING: No restart.

CABIN FIRE IN FLIGHT

1. Master Switch OFF
2. Cabin Heat OFF
3. Fire Extinguisher..... ACTIVATE
4. Air Vents & Canopy OPEN
5. LAND ..AS SOON AS PRACTICAL

SPIN RECOVERY

1. Throttle..... IDLE
2. Ailerons..... NEUTRAL
3. Rudder..... FULL OPPOSITE DIRECTION OF SPIN
4. Control Stick FORWARD
5. Rudder.....Neutralize
6. Recover from dive

Vr 60

Vx 68

Vy 79

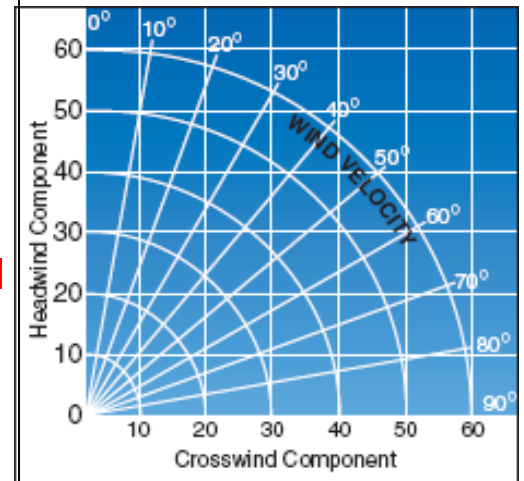
Va 104

Best Glide 72-80

Approach:

Flaps up 75-80

Flaps down 70-75



PREFLIGHT INSPECTION

CABIN

Canopy Open
Control Lock Remove
Ignition Switch.....Off
Master SwitchOff
Mixture..... Idle Cutoff

LEFT SIDE OF FUSELAGE

Static SourceUnobstructed
Fuselage Undamaged
Baggage Door Secure

EMPENNAGE

Elevators Freedom of Movement
Rudder..... Freedom of Movement
Trim Tabs..... Secure, Undamaged
Tail Cone and Light Secure
Tie Down Removed

RIGHT SIDE OF FUSELAGE

Static SourceUnobstructed
Fuselage Undamaged
Antennas Secure, Undamaged

RIGHT WING

Brake Undamaged
Flap Secure, Undamaged
Aileron Secure, Undamaged
Wing Tip and Lights Undamaged
Aileron Counterweight Secure
Wing Inspection Plates Secure
Tiedown Removed
Fuel Tank VentObstructed
Fuel Quantity, Cap Secure
Tank Drain Fuel uncontaminated
Sump Drain ... Fuel uncontaminated
Tire, Wheel ... Undamaged, Inflated
Chocks Removed

RIGHT COWL

Engine Baffles..... Undamaged
Engine Cooling Openings Open
Engine Oil Checked
Battery..... Secure
Cowl..... Closed, latches popped out

NOSE

Prop, Spinner ... Secure, undamaged
Cowling..... Secure, undamaged
Landing Light .. Secure, undamaged
Carb Air Intake Unobstructed
Nose tire Secure, inflated
Engine Cooling Openings..... Open

LEFT COWL

Windshield..... Clean, undamaged
OAT Gauge Secure, undamaged
Fuel Pump Overflow Drain Open
Fresh Air Vents..... Open
Oil Breather Vent Unobstructed
Baffles..... Secure, undamaged
Cowl Closed, latches popped out

LEFT WING

Fuel Quantity, Cap Secure
Tank Drain..... Fuel uncontaminated
Sump Drain..... Fuel uncontaminated
Tire, Wheel..... Undamaged, Inflated
Fuel Tank Vent..... Obstructed
Chocks Removed
Wing Tip and Lights..... Undamaged
Aileron Counterweight Secure
Wing Inspection Plates Secure
Tiedown Removed
Pitot Tube Unobstructed
Aileron..... Secure, Undamaged
Flap Secure, Undamaged
Brake..... Undamaged

NIGHT FLIGHT PREFLIGHT

Spare Fuses Aboard
Flashlight Aboard
Aircraft Lights Check operation