

N3878S Checklist

STARTING THE ENGINE

Parking Brake – **SET**
Seatbelts – **ON**
Seats – **Set & Locked**
Wing Flaps - **UP**
Master Switch – **ON**
Beacon- **ON**
Carburetor Heat – **COLD**
Fuel Selector - **BOTH**
Mixture – **RICH**
Prime – **AS NEEDED**
Throttle- **Open 1/4 INCH**
Propeller Area – **CLEAR**
Ignition Switch – **START (Max 10 Secs)**
Oil Pressure – **CHECK**
Mixture - **LEAN**
Avionics - **ON**
Weather- **CHECK**

BEFORE TAXI

Flight Instruments – **SET**
Lights – **AS REQUIRED**
Parking Brake - **RELEASE**
Brakes – **TEST**

BEFORE TAKE OFF

Parking Brake - **ON**
Cabin Doors – **LATCHED**
Flight Controls – **FREE AND CORRECT**
Elevator Trim – **TAKE OFF POSITION**
Brakes – **SET**
Mixture-- **RICH**
Throttle – **1600 RPM**
Magnetos – **CHECK**
Carburetor Heat – **CHECK FOR RPM DROP**
Throttle – **IDLE**
Engine Instruments – **CHECK**
Fuel Gauges – **CHECK**
Suction - **CHECK**
Alternator Low Voltage Light – **CHECK**
Ammeter - **Check**
Flight Instruments – **SET**

Avionics – **SET**
Transponder –**Verify “ALT” after take off**
Lights – **AS REQUIRED**
Fuel Selector – **BOTH**
Mixture – **RICH**
Windows – **CLOSED**
Parking Brake – **OFF**
Clock/Timer – **START**

NORMAL TAKE OFF

Wing Flaps – **UP**
Mixture – **RICH**
Carburetor Heat – **COLD**
Throttle – **FULL OPEN**
Rotate – **60 mph**
Climb Speed – **85 mph**

SHORT FIELD TAKEOFF

Wing Flaps – **UP**
Carburetor Heat – **COLD**
Brakes – **HOLD**
Throttle – **FULL OPEN**
Brakes – **RELEASE**
Rotate – **60 mph**
Climb Speed – **65 mph** (until Obstacles are Cleared)
Resume Normal Climb Speed of **85 mph**

SOFT FIELD TAKE OFF

Wing Flaps – **10 Degrees**

CLIMB CHECKLIST

Throttle – **FULL OPEN**
Air Speed – **85 mph**
Mixture – **RICH**

CRUISE CHECKLIST

Power- **SET**
Elevator Trim – **SET**
Mixture – **LEAN**

N3878S Checklist

BEFORE LANDING CHECKLISTS

Seatbelts - **ON**

Mixture – **RICH**

Carburetor Heat – **ON**

Flaps – **AS DESIRED**

Airspeed – Flaps Down – **65- 75 MPH**

Airspeed – Flaps Up – **70 – 80 MPH**

SHORT FIELD & SOFT FIELD

LANDINGS – FLAPS - **40 Degrees**

AFTER LANDING

Wing Flaps – **UP**

Carburetor Heat- **COLD.**

Mixture – **LEAN**

Trim Tab - **SET**

ENGINE SHUT DOWN

Parking Brake – **SET**

Lights - **OFF**

Avionics – **OFF**

Mixture - **IDLE CUT OFF**

Magnetos- **OFF**

Master Switch – **OFF**

Hand Held Electrical Equipment – **OFF**

SECURING AIRCRAFT

Control Lock – **INSTALL**

Tie down Aircraft

Chock - Aircraft

ENGINE FAILURE IN FLIGHT A –B –C – D

Airspeed- Best Glide - 75 mph

Best Place To Land

Engine Failure Checklist-

Seat Belts – **ON**

FUEL - **BOTH**

Mixture – **RICH**

Carburetor Heat – **ON**

Ignition Switch – **BOTH**

Primer – **IN and LOCKED**

Declare Emergency – 121.5

SQWK – 7700

IF UNABLE TO RESTART –

Fuel Selector – **OFF**

Mixture – **Idle Cut OFF**

Master Switch – **OFF**

AIRSPEEDS

Vr – 60 MPH

Vx – 65 MPH

Vy – 85 MPH Best Glide – 75 MPH

Alternator Failure

Alternator Circuit Breaker – **Check**

Ammeter – **Check**

**If unable to fix, land, and
troubleshoot.**

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PRE-FLIGHT CHECKLIST

Cockpit Check

Control Lock - **REMOVE**
Master Switch- **ON**
Flaps- **Lower 30 degrees**
Fuel Gauges - **CHECK**
Master Switch – **OFF**
Fuel Quantity - **CHECK**
Fuel Strainer – **Pull for 3 Seconds**

Left Fuselage

Left Landing Gear- **Check**
Left Tire – **Check**
Left Brake – **Check**
ELT Antenna - **Check**
Left Fuselage – **Check**

Tail Inspection

Left horizontal Stabilizer – **Check**
Elevator- **Check**
Rudder – **Check**
Right Horizontal Stabilizer – **Check**
Tail Tie Down - **Remove**
Beacon – **Check**
VOR Antennas – **Check**

Right Fuselage

Right Fuselage – **Check**
Right Landing Gear – **Check**
Right Tire – **Check**
Right Brake – **Check**

Right Wing

Right Fuel Tank – **Sump**
Flap – **Check**
Aileron – **Check**
Wing Tip – **Check**
Navigation Light – **Check**

Leading Edge – **Check**

Tie Down - **Remove**

Fuel Tank – **Check Quantity**

Fuel Cap – **Installed**

Aircraft Nose

Right Engine Cowling – **Secure**

Propeller- **Check**

Spinner - **Check**

Air Intake – **Check**

Engine Compartment – **Clear**

Nose Tire – **Check**

Steering Linkage – **Check**

Left Engine Cowling – **Secure**

Oil Level – **CHECK 6-8 Quarts**

Oil Dipstick & Cap – **Secure**

Engine Compartment Door – **Secure**

Static Port - **Clear**

Left Wing

Fuel Quantity – **Check**

Fuel Cap – **Installed**

Stall Warning – **Check**

Pitot Tube – **Check**

Fuel Vent Tube - **Check**

Landing Light – **Check**

Tie Down – **Remove**

Leading Edge – **Check**

Navigation Light – **Check**

Wing Tip – **Check**

Aileron – **Check**

Flap – **Check**

Left Fuel Tank- **Sump**

Communication Antennas – **Check**

Fuel Caps – **Installed**

Exterior Preflight - **COMPLETE**