

# N150HB Checklist

## Preflight

### PREFLIGHT

- a. COCKPIT
  - 1. Docs (AROW)..... CHECK
  - 2. Weight & Balance..... CHECKED
  - 3. Pitot Cover..... REMOVE
  - 4. Control Locks..... REMOVE
  - 5. Parking Brake..... SET
  - 6. Ignition..... OFF
  - 7. Fuel Selector Valve..... ON
  - 8. Avionics & Radios..... OFF
  - 9. Master..... ON
  - i. Pitot Heat..... ON
  - ii. Fuel Gauges..... CHECK
  - iii. Pitot Heat..... CHECK
  - iv. Lights..... CHECK
  - v. Flaps..... DOWN
  - 10. Master..... OFF
  - 11. Baggage Door..... CLOSED & LOCKED
- b. FUSELAGE & ANTENNAS..... CHECK
- c. EMPENNAGE
  - 1. Tie-Down..... REMOVE
  - 2. Flight Controls..... CHECK
  - 3. Trim Tab..... SECURE
- d. RIGHT WING..... INSPECT
  - 1. Flap & Aileron..... CHECK
  - 2. Wing Tip..... CHECK
  - 3. Leading Edge..... CHECK
  - 4. Tie-Down..... REMOVE
  - 5. Main Gear..... CHECK
  - 6. Fuel..... SUMP
  - 7. Fuel Quantity..... CHECK & SECURE CAP

*Continued on top*

### Preflight Continued

- e. ENGINE, COWLING & NOSE GEAR
  - 1. Oil..... ADD (indicated on oil door)
  - 2. Engine Compartment..... INSPECT
  - 3. Fuel..... SUMP
  - 4. Nose Strut & Tire..... CHECK
  - 5. Cowling & Air Filter..... CHECK
  - 6. Alternator Belt..... CHECK
  - 7. Spinner & Prop..... CHECK
  - 8. Static Port..... CHECK
- f. LEFT WING..... INSPECT
  - 1. Fuel Quantity..... CHECK & SECURE CAP
  - 2. Tie-Down..... REMOVE
  - 3. Stall Warning..... INSPECT
  - 4. Fuel Vent..... CHECK
  - 5. Wing Tip..... CHECK
  - 6. Fuel..... SUMP
  - 7. Main Gear..... CHECK
  - 8. Flap & Aileron..... CHECK

### BEFORE START

- 1. Exterior Preflight..... COMPLETE
- 2. Passenger Safety Brief..... COMPLETE
- 3. Seats..... ADJUSTED & LOCKED
- 4. Seatbelts & Shoulder harness..... ON
- 5. Doors..... CLOSED & LOCKED
- 6. Circuit Breakers..... IN
- 7. Fuel Selector Valve..... ON
- 8. Avionics..... OFF
- 9. Master Switch..... OFF
- 10. Mixture..... IDLE CUT-OFF
- 11. Throttle..... CLOSED
- 12. Beacon..... ON
- 13. Brakes..... SET

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## Start - Runup

### ENGINE START

- 1. Mixture..... RICH
- 2. Carb Heat..... COLD
- 3. Master..... ON
- 4. Primer..... As Required
- 5. Throttle..... 1/4" OPEN
- 6. Prop Area..... CLEAR
- 7. Ignition Switch..... START
- 8. Oil Pressure & Engine Gags..... CHECK

### PRE-TAXI

- 1. **Mixture..... Ground Lean**
- 2. Avionics..... ON
- 3. Avionics..... SET FREQ & TEST RADIOS
- 4. Flaps..... UP
- 5. Lights..... SET
- 6. Altimeter..... SET
- 7. Transponder..... ALT
- 8. ATIS..... RECEIVED

### TAXI

Clear Area PRIOR to taxi

- 1. Cross Wind Control..... ESTABLISHED
- 2. Brakes..... TEST
- 3. Gyro Instrmnts..... CHECK when appropriate

### RUN-UP

- 1. Brakes..... SET
- 2. Doors..... CLOSED & LOCKED
- 3. Flight Controls..... FREE & CORRECT
- 4. Fuel Selector Valve..... ON
- 5. Trim..... Set for TAKEOFF
- 6. Mixture..... RICH or Best Power
- 7. Throttle..... 1700 RPM
- i. Engine Instruments..... CHECK
- ii. Suction..... CHECK
- iii. Carb Heat..... CHECK
- iv. Engine Instruments & Ammeter..... CHECK
- v. Mags..... CHECK (Max Diff: 75 RPM)
- 8. Throttle..... IDLE
- 9. (Throttle) Friction Lock ..... SET
- 10. Flight Instruments..... SET
- 11. Radios..... SET
- 12. Transponder..... SET CODE
- 13. Flaps..... 0°

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## Takeoff

### PRE-TAKEOFF

1. Trim..... SET for takeoff
2. Mixture..... RICH (lean above 5000')
3. Lights..... As Required

### TAKEOFF

#### a. NORMAL TAKEOFF

1. Flaps..... 0°
2. Carb Heat..... COLD
3. Throttle..... FULL (smoothly)
4. Rotate..... 55 MPH
5. Climb..... 70-80 MPH

#### b. MAX PERFORMANCE TAKEOFF

1. Flaps..... 0°
2. Carb Heat..... COLD
3. Brakes..... HELD
4. Throttle..... FULL
5. Brakes..... RELEASE
6. Elevator Control..... Slightly tail low
7. Climb..... 70 MPH

#### c. SOFT FIELD or Shortest Ground Roll

1. Flaps..... 10°

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## Flight

### CLIMB

#### a. NORMAL CLIMB

1. Airspeed..... 75-85 MPH
2. Throttle..... FULL
3. Mixture..... RICH (unless engine roughness)

#### a. MAX CLIMB

1. Airspeed..... 70 MPH
2. Throttle..... FULL
3. Mixture..... RICH (unless engine roughness)

### CRUISE

1. Throttle..... 2000-2750 RPM
2. Trim..... ADJUST
3. Mixture..... LEAN (peak RPM)

### AIRSPEDS

- Vg (best glide)..... 70 MPH  
Vy (best rate / time)..... 78 MPH  
*at 10,000' -- 71 MPH*  
Vx (best angle / distance)..... 70 MPH  
Va (manev speed)..... 109 MPH  
Vs (w/o flaps)..... 55 MPH (CAS)  
Vso (w/ flaps)..... 48 MPH (CAS)  
Vne (never exceed)..... 162 MPH

### DESCENT

1. Mixture..... ENRICHEN
2. Throttle..... As Required
3. Trim..... ADJUST

### PRE-LANDING

1. Mixture..... RICH
2. Carb Heat..... ON (before closing throttle)
3. Airspeed..... 70-80 MPH (flaps up)
4. Throttle..... As Required
5. Flaps..... As Required
6. Airspeed..... 60-70 MPH (flaps down)
7. Fuel Selector..... BOTH

### LANDING

#### a. NORMAL LANDING

1. Flaps..... As Required
2. Airspeed..... 60-70 MPH (flaps down)
3. Touchdown on Main Gear
4. Landing Roll..... Lower nosewheel gently
5. Braking..... minimum required

#### b. SHORT LANDING

1. Flaps..... 20°
2. Airspeed..... 60 MPH
3. Touchdown on Main Gear
4. Max Braking..... APPLY  
*flaps up, full aft elevator, braking without skidding*

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## After Landing & Emergencies

### AFTER LANDING & Clear of Rwy

1. Flaps..... UP (visually verify)
2. Carb Heat..... COLD
3. Mixture..... LEAN
4. Lights..... As Required
5. Trim..... TAKEOFF

### SHUTDOWN

1. Throttle..... 1000 RPM
2. Avionics..... OFF
3. Lights & Switches..... OFF
4. Mixture..... IDLE CUT-OFF
5. Ignition..... OFF
6. Master..... OFF
7. Control Lock..... INSTALLED
8. Pitot Tube Cover..... INSTALLED
9. Tie-Downs..... SECURED
10. Hobbs & Tach..... RECORD
11. Interior..... CLEANED & SECURED
12. Walk-Around Inspection..... COMPLETE
13. Aircraft..... LOCK

### GO-AROUND

1. Throttle..... FULL
2. Carb Heat..... COLD
3. Flaps..... RETRACT to 20°
4. Airspeed..... 65 MPH
5. Flaps..... RETRACT slowly

### PRECAUTIONARY LDG W/ POWER

1. Wing Flaps..... 20°
2. Airspeed..... 70 MPH
3. Selected Field..... Fly Over
4. Avionics & Eelectric..... OFF
5. Wing Flaps..... 40°
6. Airspeed..... 65 MPH
7. Master..... OFF
8. Doors..... UNLATCHED
9. Pax Seats & Seatbelts..... SECURE
10. Touchdown..... SLIGHTLY TAIL LOW
11. Brakes..... Apply Heavily

### FIRE DURING START on Ground

1. Cranking..... CONTINUE IF ENG. STARTS
2. Throttle..... 1700 RPM (2 min)
3. Engine..... SHUTDOWN if no start

### Fails to Start

4. Throttle..... OPEN
5. Mixture..... IDLE CUTOFF
6. Cranking..... CONTINUE
7. Fuel Shutoff Valve..... OFF
8. Fire Extinguisher..... ACTIVATE
9. Engine..... SECURE
10. Master Switch..... OFF
11. Ignition Switch..... OFF
12. Parking Brake..... SET
13. Airplane..... EVACUATE
14. Fire..... EXTINGUISH
15. Fire Damage..... INSPECT

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## Emergencies

### ENGINE FIRE IN FLIGHT

1. Mixture..... IDLE CUTOFF
2. Fuel Selector Valve..... OFF
3. Master..... OFF
4. Cabin Air & Heat..... OFF
5. Airspeed..... 100 MPH
6. Emerg Landing w/o Power..... EXECUTE

### ROUGH RUNNING ENGINE

1. Mixture..... LEAN or ENRICHEN
2. Ignition Switch..... CYCLE MAGS
3. Reduce Climb Rate..... Better Cooling
4. Not Recovered..... LAND as soon as practical

### ENGINE FAILURE DURING FLIGHT

1. Airspeed..... 75 MPH
2. Fuel Selector Valve..... ON
3. Mixture..... RICH
4. Carb Heat..... ON
5. Ignition Switch..... BOTH
6. Primer..... IN & LOCKED

### EMERG LANDING W/O POWER

1. Airspeed..... 65-75 MPH
2. Mixture..... IDLE CUTOFF
3. Fuel Selector Valve..... OFF
4. Ignition Switch..... OFF
5. Wing Flaps..... 40° Recommended
6. Doors..... UNLATCHED
7. Transmit..... 121.5
8. Squawk..... 7700
9. Master..... OFF
10. Pax Seats & Seatbelts..... SECURE
11. Touchdown..... SLGHTLY TAIL LOW
12. Brakes..... Apply Heavily

### ELECTRICAL FIRE IN FLIGHT

1. Master Switch..... OFF
  2. Avionics & Radios..... OFF
  3. Vents, Cabin Air & Heat..... CLOSED
  4. Fire Extinguisher..... ACTIVATE
  5. All Switches (except ignition)..... OFF
- IF FIRE EXTINGUISHED**
6. Master Switch..... ON
  7. Circuit Breakers..... IN (no reset)
  8. Radios..... OFF
  9. Radio & Electrical..... ON (1 at a time)
  10. Vents, Cabin Air & Heat..... OPEN

### CABIN FIRE

1. Master..... OFF
2. Vents, Cabin Air & Heat..... CLOSED
3. Fire Extinguisher..... ACTIVATE
4. LAND..... as soon as practical

### WING FIRE

1. Nav, Landing, Taxi Lights..... OFF
2. Pitot Heat..... OFF
3. Strokes..... OFF

### LOW VOLTAGE ANNUNCIATOR

1. Avionics & Radios..... OFF
2. Alternator Circuit Breaker..... CHECK IN
3. Master Switch..... OFF (both sides)
4. Master Switch..... ON (check ammeter)

### EXCESSIVE RATE OF CHARGE

1. Alternator..... OFF
2. Nonessential Electrical Equip..... OFF
3. Flight..... Terminate ASAP