

# Pre-Flight Checklist:

## Flight Planning:

- Route, Departure, Destination, Alternates.
- Any other airports being visited.
- TFRs
- Weather
  - Adverse Conditions:
    - SIGMETS
    - AIRMETS
  - Synopsis:
    - Surface Analysis Chart
    - Weather Depiction Chart
    - Constant Pressure Chart
  - Forecast:
    - Area Forecast
    - Low Level SIGWX Prog
    - Winds Aloft
  - METARS + TAFS:
    - Departure
    - Arrival
    - Alternatives
    - Any other
  - NOTAMS:
    - Departure
    - Arrival
    - Alternatives
    - Any other
  - PIREPS
  - RADRAR
- Weight and Balance (if possible)

## Flight Bag:

- Clipboard
- Blank paper 3+ sheets
- SF TAC
- SF Sectional
- Any additional maps
- Logbook
- 2+ Pens
- Sunglasses
- E6b
- Plotter
- AFD (at least A/D):
  - Departure
  - Arrival
  - Alternates
- Information Manual
- Pilot's Certificate
- Medical
- Flight Planning Bundle
- This Checklist
- Flight Checklist

### Cockpit:

- Windshield Cover - REMOVE
- Pitot Cover - REMOVED
- HOBS + TACH - RECORD
- Keys - ON DASH
- Documents:
  - Airworthiness - CHECK
  - Registration - CHECK
  - POH - CHECK
  - Weights + Balance - CHECK
- Control Lock - REMOVED
- Brake Pedals + Rudder - CHECK
- Fuel Selector - BOTH
- Fuel Cutoff - IN
- Trim extremes - TAKEOFF
- Flaps - FULL
- Alternate static port - CHECK
- Lights - ALL ON
- Master - ON
- Lights - CHECK
- Fuel - CHECK
- Annunciators - CHECK
- Avionics cooling fan - CHECK
- Ammeter Discharge - NOTE
- Master - OFF
- Lights - OFF
- Pitot Heat - CHECK
- Passenger door - OPEN

### Empennage:

- Autopilot Static Port - CLEAR
- Preflight equipment - ON GROUND
- Elevator left counterweight - CHECK
- 2 Elevator Joints - CHECK
- Elevator cables - CHECK
- Rudder Cable Left - CHECK
- Tie-down - DISCONNECT
- Rudder Trim - CHECK
- 3 Rudder Joints - CHECK
- Rudder counterweight - CHECK
- VOR antenna - CHECK
- Elevator Trim arm - CHECK
- Rudder Cable Right - CHECK
- 2 Elevator Joints - CHECK
- Elevator counterweight - CHECK

### Right Wing:

- Wheel strut - CHECK
- Brake - CHECK
- Tire - CHECK
- Flap rails - CHECK
- Flap rod - CHECK
- Aileron bolts - CHECK
- Aileron rod - CHECK
- Aileron weights(3) - CHECK
- Wing Leading edge - CHECK
- Tie-down - DISCONNECT
- Wing strut - CHECK
- 5 Fuel test points - DRAIN
- Fuel - CHECK CLEAN
- Fuel - QUANTITY
- Fuel - FILTER CAP

### Nose:

- Oil - 6+ QUARTS
- Engine bay - CLEAR
- 3 Fuel test points - DRAIN
- Wheel - CHECK
- Wheel strut - 3+ FINGERS
- Prop - SMOOTH
- Spinner - SMOOTH
- Alternator Belt - CHECK
- Cooling inlet - CLEAR
- Air Filter - CLEAR
- Static Port - CLEAR

### Left Wing:

- 5 Fuel test points - DRAIN
- Fuel - CHECK CLEAN
- Fuel - QUANTITY
- Fuel - FILTER CAP
- Wing strut - CHECK
- Pitot tube - CLEAR
- Tie-down - DISCONNECT
- Fuel Tank Vent - CLEAR
- Stall Warning - OPERATIONAL
- Wing Leading edge - CHECK
- Aileron weights(3) - CHECK
- Aileron bolts - CHECK
- Aileron rod - CHECK
- Flap rails - CHECK
- Flap rod - CHECK
- Wheel strut - CHECK
- Brake - CHECK
- Tire - CHECK

### **Final Preflight Checks:**

- Seat height - LOWEST
- Preflight equipment - STORED
- Baggage door - LOCKED
- Flight Equipment - READY
- WALK AROUND

### **Passenger Brief:**

- PIC/Responsibilities
- Mission
- Seatbelt
- Air vent/sick
- Fire Extinguisher
- Exits and equipment
- Traffic/Talking
- Questions?

### **Engine Start:**

- Seatbelts/Security - CHECK
- Mags - OFF
- Master - OFF
- Beacon - ON
- Avionics - OFF
- Brakes - SET
- Mixture - FULL LEAN
- Throttle - 1/4"
- CLEAR PROP
- Engine - START

### **Pre-taxi:**

- Avionics - ON
- Mixture - LEAN
- Oil Pressure/Temp - CHECK
- Ammeter - POSITIVE
- Flaps - UP
- Strobes - ON
- ATIS
- Altimeter set
- H.I. to compass
- XPDR - VFR + ALT
- GPS - ADVANCE
- NOTE WIND FOR TAXI
- Airport Diagram
- Breaks - TEST

### **RUNUP (CIGARS):**

- Controls - FREE + CORRECT
- Instruments - CHECK
- Gas - BOTH + QUANTITY
- Annunciator - CHECK
- Autopilot - CHECK
- Attitude - TRIM TAKEOFF
- Radios - TOWER + XPDR
- Runup:
  - Mixture - FULL RICH
  - RPM - 1800
  - Mags L/R - TEST
  - Oil Temp/Pressure - CHECK
  - Amps/Volts - CHECK
- Seatbelts + Security - CHECK

### **Pre-takeoff Briefing:**

- Runway - CONFIRM
- Wind - CHECK
- Departure - BRIEF
- Engine Failure - BRIEF
- 1000 AGL in MSL - NOTE
- Abort Speed/Point - NOTE (40KT)
- **Switch to Flight Checklist**

### **Flow Check:**

- H.I to compass - SET
- Oil - TEMP + PRESSURE
- AMPS/VOLTS - CHECK
- Lights - CHECK
- Power - CHECK
- Mixture - CHECK
- NEXT CHECKLIST - NOTE
- Best field - NOTE

### **Before Landing:**

- FLOW CHECK
- ATIS - CHECK
- Altimeter - SET
- Landing Light - ON
- Fuel - BOTH
- Seatbelts - CHECK
- HI bug - SET RUNWAY
- Airport Information
- GUMPS - REMEMBER

### **After Landing:**

- Flaps - UP
- Mixture - LEAN
- Lights - SET
- NOTE WIND FOR TAXI
- Airport Diagram

### **Engine Failure:**

- Airspeed - 68 Kt
- Fuel Pump - ON
- Throttle - CYCLE - FULL
- Mixture - CYCLE - FULL
- Mags - CYCLE - BOTH
- Fuel Tanks - CYCLE - BOTH
- Fuel Cutoff - CYCLE - IN

### **If engine doesn't start:**

- Fuel Cutoff - OUT
- Mixture - IDLE
- Throttle - IDLE
- Mags - OFF
- Doors - UNLATCHED

### **Engine Fire:**

- Mixture - FULL LEAN
- Fuel Cutoff - OUT
- Fuel Pump - OFF
- Master - OFF
- FORCED LANDING

### **Cabin/Electrical Fire:**

- Master - OFF
- Cabin Vents - CLOSED
- Fire Extinguisher - ACTIVATE
- Cabin Vents - OPEN
- Land - ASAP