

# PIPER CUB J3-65 N68952 PRE-FLIGHT CHECKLIST

#### **COCKPIT**

- Check airworthiness certificate, registration, weight & balance documentation
- Battery CONNECTED
- Plug in headsets or secure as required
- Fuel ON
- Magnetos OFF
- Primer CLOSED & LOCKED
- Mixture LEAN
- Carb Heat COLD
- Check rudder pedals and brake linkages
- · Check for hydraulic brake reservoirs leaks
- · Check control stick cable attachment
- Check overhead aileron cable linkage
- Drain fuel tank sump and inspect for contaminants

#### **RIGHT SIDE**

- Check foot step is secure
- Check the lower wing strut bolts are secure
- Check upper and lower door hinges are secure
- Check landing gear attachment bolts are secure
- Check landing gear strut attachment bolts are secure
- Check bungee covers are secure
- · Check right tire inflation level & wear
- Check right wheel brake line is secure and brake lining is visible

#### **ENGINE & NOSE**

- · Check fuel level and gauge
- Check oil is at 5 quarts
- Check cowling pins are secure
- Check muffler is secure
- Check ignition wires are secure
- Check "bug eye" air scoops are secure
- Check propeller and spinner is secure
- · Check the air filter is clear
- Check the exhaust manifolds are secure
- Drain fuel from the fuel system

Note: Repeat for both sides of the engine

#### **LEFT SIDE & WING**

- Check the lower strut bolts are secure
- Check landing gear attachment bolts are secure
- Check landing gear strut attachment bolts are secure
- Check bungee covers are secure
- Check left tire inflation level & wear
- Check left wheel brake line is secure and brake lining is visible
- Check lift struts and jury struts are secure and not deformed
- Check pitot tube is clear and pitot tube cover is free moving
- Check aileron cable is not frayed and guy bushings are in place
- Check upper lift strut bolts are secure
- Check upper aileron cable pulley is secure
- Check wing leading edge and wing tip is not deformed
- Check aileron hinge and cable attachments are secure
- Check the wing root gap covers are secure

### **TAIL**

- Check the left horizontal stabilizer attachment bolts are secure
- Check the trim mechanism has minimal play and is secure
- Check the left upper and lower flying wires are secure
- Check the left elevator hinge and cable attachments are secure
- Check the rudder hinge and cable attachments are secure
- Check the tail wheel leaf spring and tension spring attachment is secure
- Check the right elevator hinge attachments are secure
- Check the right horizontal stabilizer attachment bolts are secure
- Check the right upper and lower flying wires are secure

# **RIGHT WING**

- Check the wing root gap covers are secure
- Check radio antenna is secure
- Check aileron hinge and cable attachments are secure
- Check wing leading edge and wing tip is not deformed
- Check upper lift strut bolts are secure
- Check upper aileron cable pulley is secure
- Check lift struts and jury struts are secure and not deformed
- Check aileron cable is not frayed and guy bushings are in place



# PIPER CUB J3-65 N68952 OPERATIONS CHECKLIST

## **BEFORE ENGINE START**

- Seat Belts SECURE
- Battery CONNECTED
- Magnetos OFF
- Throttle CLOSED
- Fuel ON
- Carb Heat COLD
- Mixture RICH

#### **ENGINE START**

- Primer 2 PUMPS THEN LOCK
  - o 4 PUMPS if below 40 degrees F
- Brakes SET
- Pull prop through 5 blades
- Magnetos BOTH
- Throttle 1/10 OPEN
- Stick FULL AFT
- Propeller Area Clear
- Pull prop through quickly and clear prop arc
- Oil Pressure 15 psi MIN IN 30 SECONDS
- Throttle 600 RPM
- Idle for 3 minutes before taxi

#### **BEFORE TAXI**

- Radio ON
- Intercom ON

#### **TAXI**

- Brakes CHECK
- Proceed to taxi using "S" turns for visibility

#### **BEFORE TAKE-OFF**

- Flight Controls FREE AND CORRECT TO LIMITS
- Elevator Trim NEUTRAL
- Altimeter SET
- Throttle 1700 RPM,
- Mag Select L & R NO MORE THAN 75 RPM DROP EACH MAG AND NO MORE THAN 50 RPM DIFFERENCE
- Carb Heat WARM, NOTE DROP IN RPM
- Oil Pressure 30 60 PSI (Green Arc)
- Throttle 600 RPM

#### **TAKE-OFF**

- Fuel ON
- Oil Temperature 225 Degrees Maximum
- Oil Pressure 15 PSI Minimum
- Primer LOCKED
- Carb Heat COLD
- Mixture RICH
- Throttle FULL OPEN, 2550 RPM Maximum
- Climb at 55 MPH
- Trim as required

#### **CRUISE**

- Throttle 2150 RPM
- Oil Temperature 225 Degrees Maximum
- Oil Pressure 30-60 PSI
- · Trim as required

#### **BEFORE LANDING**

- Mixture RICH
- Carb Heat WARM 15 SECONDS BEFORE REDUCING POWER
- Airspeed 50 60 MPH

#### **AFTER LANDING**

Carb Heat – Cold

#### **ENGINE SHUT DOWN**

- Throttle 600 RPM
- Mixture LEAN
- Magnetos OFF, AFTER ENGINE STOPS
- Intercom OFF
- Radio OFF
- Battery DISCONNECTED

# **SECURING (IF NOT HANGERED)**

- Wings/Tail SECURE TO TIE DOWN
- Elevator SECURE WITH SEAT BELT FULL AFT
- Door SECURE REACHING THROUGH WINDOW
- Window SECURE WITH WEDGE OUTSIDE



# PIPER CUB J3-65 N68952 EMERGENCY PROCEDURES

## **ENGINE FAILURE**

- Carb Heat WARM
- Airspeed 55 MPH
- Landing Site IDENTIFY LANDING OPTIONS
- Communicate TRANSMIT MAYDAY 121.5 MHz
- Fuel ON
- Primer CLOSED AND LOCKED
- Mixture RICH
- Throttle OPEN
- Magnetos VERIFY LEFT AND RIGHT MAGS OPERATING NORMALLY

## **EMERGENCY LANDING**

- Mixture LEAN
- Throttle CLOSED
- Fuel OFF
- Magnetos OFF
- Seat Belts Secured
- Door UNLATCHED

#### **LOSS OF OIL PRESSURE**

- Oil Temperature 225 DEGREES MAXIMUM
  - If oil temperature is rapidly rising LAND IMMEDIATELY
  - If oil temperature is stable LAND AS SOON AS PRACTICAL

## **ENGINE FIRE DURING START**

- Throttle CLOSED
- Mixture LEAN
- Fuel OFF
- Magnetos OFF
- Abandon Aircraft

#### **ENGINE FIRE IN FLIGHT**

- Throttle CLOSED
- Mixture LEAN
- Fuel OFF
- Cabin Heat OFF
- Magnetos OFF
- Dive to extinguish fire: DO NOT EXCEED 122 MPH



# PIPER CUB J3-65 N68952 SPECIFICATIONS

## **GENERAL INFORMATION**

- Engine Continental O-200
- Horsepower 85
- Oil Quantity 5 quarts, 50 AD above 50 Degrees F
  - 5 quarts, 30 AD below 50 Degrees F
- Fuel Octane 80/87 Minimum
  - 110LL is acceptable
- Fuel Quantity 12 Gallons
- Cruise Airspeed 75 MPH at 2150 RPM
- Goss Weight 1220 lbs Maximum
- Empty Weight 772 lbs (includes oil)
- Useful Load 448 lbs (fuel, people, baggage)
- Tire Pressure 15 PSI

#### **SPEEDS AND LIMITS**

- Stall Speed (V<sub>s</sub>) 38 MPH
- Best Angle of Climb (V<sub>x</sub>) − 50 MPH
- Best Rate of Climb (V<sub>y</sub>) 55 MPH
- Maneuvering Speed (V<sub>a</sub>) 65 MPH (approximately)
- Never Exceed Speed (V<sub>ne</sub>) 122 MPH



# PIPER CUB J3-65 N68952 HOT ENGINE START PROCEDURE

- If the engine has been cooling for less than 10 minutes it should start normally.
- Follow the procedure below if the engine has been cooling for between 10 to 20 minutes.
  - Magnetos OFF
  - Throttle CLOSED
  - o Fuel ON
  - o Carb Heat COLD
  - Mixture RICH
  - Brakes SET
  - o Primer 4 PUMPS THEN LOCK
  - Pull prop through 12 blades
  - Throttle 1/10 OPEN
  - o Magnetos BOTH
  - o Pull prop through quickly and clear prop arc



# PIPER CUB J3-65 N68952 WEIGHT & BALANCE

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	Weight (lbs)	Arm (in)	Moment (in-lbs)
Basic Empty Weight	772	15.24	11758
Fuel		-18	
Rear Seat		+36	
Front Seat		+9	
Baggage (20 lbs Max.)		+49	
Totals:			
Maximum Weight:	1220 lbs		
Basic Empty Weight includes 5 Qts of oil			
Total Arm - Total Moment/Total Weight			





