

STEARMAN PT 13D/N2S-5

1. CHECK BEFORE ENTERING COCKPIT (walk around)

- a. Tire Pressure – mains 16 lbs/tailwheel 30lbs
- b. Wire Tension
- c. Fabric Condition
- d. Fuel Quantity
- e. Oil Level (add)
- f. Rotate Cuno Filter Handle
- g. Clean Windscreen
- h. Latch Baggage Compartment

2. CHECK ON ENTERING COCKPIT

- a. Ignition Switch "OFF"
- b. Master Switch "OFF"
- c. Throttle "CLOSED"
- d. Mixture "FULL LEAN"
- e. Carb Heat "COLD"
- f. Fuel "ON"
- g. Passenger Briefing

3. STARTING THE ENGINE

- a. Prop 9 blades minimum (throttle closed)
- b. Primer "2 – 4 STROKES"
- c. Throttle "OPEN HALFWAY"
- d. Mixture "FULL RICH"
- e. Carb Heat "COLD"
- f. Master "ON"
- g. Energize Starter
- h. Ignition Switch "BOTH"
- i. Set Throttle "700 – 800 rpm"
- j. Oil Pressure – Indicating Within 30 Seconds
- k. Warm oil to 68 degrees before taxiing and oil pressure at 50 psi
- l. Secure Seat Belts
- m. Field "OFF" to start
"ON" for cruise

4. ENGINE GROUND TEST

- a. After warmup (68 – 158) throttle up to 1550 rpm
- b. Mag check at 1550 rpm (no more than 50 rpm drop)
- c. Carb Heat "TEST"
- d. Oil Pressure "50 – 75 psi"
- e. Oil Temp "68 – 158"
- f. Radio Check – Intercom

5. TAXIING

- a. "S" Turns for Clearance
- b. Position Controls for Wind

6. TAKE OFF

- a. Flight Controls "FREE AND CLEAR"
- b. Elevator Trim "NEUTRAL"
- c. Mixture "FULL RICH"
- d. Carb Heat "COLD"
- e. Altimeter "CHECK AND SET"
- f. Throttle "FULL"
- g. Oil Pressure "50 – 75 psi"
- h. Oil Temp "122 – 158"
- i. Climb Out "80 mph"

7. CRUISE

- a. 17 – 1900 rpm

8. APPROACH AND LANDING

- a. Reduce throttle without over-cooling engine
- b. Mixture "FULL RICH"
- c. Trim for 75 mph
- d. Carb heat "ON" for downwind and base legs and "OFF" for final
- e. Air Speeds:
 - 1. Downwind 75 mph
 - 2. Base 70 mph
 - 3. Final 65 mph

9. STOPPING ENGINE

- a. Reduce throttle gradually to normal idle
- b. At 1000 rpm, hold for 20 seconds to scavenge the oil
- c. Mixture "FULL LEAN"
- d. Throttle "CLOSED"
- e. Master Switch "OFF"
- f. Ignition Switch "OFF"
- g. Field "OFF"

10. BEFORE LEAVING COCKPIT

- a. Fuel "OFF"
- b. Flight Controls "SECURED"

11. BEFORE LEAVING AIRCRAFT

- a. Apply Chocks
- b. Position Oil Drip Pan
- c. Wipe Down Aircraft