**CHECKLIST** N8961V - Victor 08/28/2023

### INTERIOR

- 1. Parking Brake AS REQUIRED
- 2. Required Documents CHECK
  - a. Tach/Hobbs **RECORD**
  - b. Squawks **REVIEW** (Review 100 inspection/oil change times)
- 3. Control Wheel Lock **REMOVE**
- 4. Ignition & Master Switch OFF
- 5. Avionics Master OFF
- 6. Beacon CONFIRM ON
- 7. Propeller VISUALLY CLEAR
- 8. Master Switch ON
- 9. Fuel Gauges CHECK
- 10. Flaps (Area Clear) **DOWN**
- 11. Lights for Night Ops CHECK
- 12. Master Switch OFF
- 13. Fuel Selector **BOTH**

# EXTERIOR

- 1. Left Fuel Tank QUANT CHECK & **SUMP**
- 2. Right Fuel Tank QUANT CHECK & SUMP
- 3. Engine **SUMP & RETURN**
- 4. Oil Level CHECK
- 5. Baggage Door LOCK
- 6. Left Side Fuselage CHECK
- 7. Tail Tie-Down **DISCONNECT**
- 8. Tail Control Surfaces CHECK (Cable connections, safety wires & stops)
- 9. Nav Light/Beacon CHECK
- 10. Right Side Fuselage CHECK
- 11. Right Wing Flap CHECK
- 12. Right Wing Aileron CHECK
- 13. Right Wing Nav Light CHECK
- 14. Right Wing Tie-Down **DISCONNECT**
- 15. Right Tire & Brake Assembly CHECK
- 16. Cowling **SECURE**
- 17. Nose Wheel Assembly CHECK
- 18. Propeller & Spinner CHECK
- 19. Alternator Belt **CHECK**
- 20. Landing Light **SECURE**
- 21. Carburetor Air Filter CHECK
- 22. Static Port CLEAR
- 23. Pitot Tube Cover REMOVE & CHECK
- 24. Stall Warning Vent CLEAR
- 25. Fuel Tank Vent CLEAR
- 26. Left Wing Tie-Down DISCONNECT
- 27. Left Wing Navigation Light CHECK
- 28. Left Wing Aileron CHECK
- 29. Left Wing Flap CHECK
- 30. Left Tire and Brake Assy CHECK
- 31. Final Walk Around COMPLETE

### BEFORE STARTING ENGINE

- 1. Exterior Preflight COMPLETE
- 2. Seats, Belts, Shoulder Harness ADJUST & LOCK
- 3. Fuel Selector Valve BOTH
- 4. Circuit Breakers CHECK
- 5. Brakes TEST & SET or HOLD

### STARTING ENGINE

- 1. Mixture **RICH**
- 2. Carburetor Heat **PUSH COLD**
- 3. Prop Area VISUALLY CLEAR
- 4. Master Switch ON
- 5. Beacon CONFIRM ON
- 6. Primer AS REOUIRED then **LOCKED**
- 7. Throttle **OPEN 1/8 inch**
- 8. Propeller Area YELL "CLEAR"
- 9. Ignition Switch START
- 10. Oil Pressure CHECK
- 11. Mixture LEAN 1"
- 12. Flaps UP & OFF
- 13. Avionics Master ON
- 14. Transponder ALT/CODE SET
- 15. Navigation Lights **ON**
- 16. Magnetic Compass **CHECK**
- 17. Gyroscopic Compass SET
- 18. Altimeter SET
- 19. Comm 1 and 2 radio frequencies SET
- 20. Radio Check on Comm 2 COMPLETE

- 4. Fuel Selector Valve BOTH
- 5. Runup. Throttle **1700 RPM** 
  - a. Engine Instruments/Ammeter CHECK
  - b. R/L Magnetos CHECK:
    - i. <125 RPM DROP
  - ii. <50 RPM DIFFERENCE
  - c. Carburetor Heat CHECK

  - d. Suction gage CHECK
  - **CHECK**
  - f. Carburetor Heat COLD
- 6. Flight Instruments **SET**
- 7. Radios & Navigation SET
- 8. Throttle Friction ADJUST
- 9. Landing Light **ON**
- 10. Briefing **COMPLETE** 
  - sterile cockpit
  - altitude)
- 11. Doors & Windows CLSD & LCKD

### FLOW CHECK (at hold short line)

- 1. Fuel Selector Valve **BOTH**
- 2. Trim SET
- Mixture RICH
- Flaps **SET**
- Radios SET
- 7. Engine Instruments **CHECK**

# NORMAL TAKEOFF

- 1. Wing Flaps UP
- 2. Carburetor Heat PUSH COLD
- 3. Brakes **RELEASE**
- 4. Throttle FULL POWER/CHK ENG
- 5. Elevator Control LIFT NOSE @ 60 MPH
- 6. Climb Speed 75 to 85 MPH

### **ENROUTE CLIMB**

- 1. Airspeed 80 to 90 MPH
  - a. Vy at 2000 lb = 86 MPH
- 2. Throttle **FULL**
- 3. Mixture FULL RICH (lean above 3000 feet)

### **CRUISE**

- 1. Power **2200 to 2700 RPM** (<75%)
- 2. Elevator Trim ADJUST
- 3. Mixture LEAN to max RPM

#### DESCENT

- 1. Fuel Selector BOTH
- 2. Mixture FULL RICH
- 3. Carb Heat AS REQUIRED
- 4. Throttle **AS REQUIRED**

## **BEFORE LANDING**

- 1. Fuel Selector BOTH
- 2. Mixture FULL RICH
- 3. Carburetor Heat PULL ON
- 4. Landing Light ON
- 5. Airspeed 70 to 80 (FLAPS UP)
- 6. Airspeed 65 to 75 (FLAPS DOWN)

# NORMAL LANDING

- 1. Touch Down MAIN WHEELS 1st
- 2. Landing Roll LOWER NOSE WHEEL GENTLY
- 3. Braking MINIMUM REQUIRED

# AFTER LANDING

- 1. Clear Runway CROSS HOLD LINE
- 2. Fuel Selector **BOTH**
- 3. Elevator Trim INDEX
- 4. Carburetor Heat PUSH COLD
- 5. Wing Flaps UP/OFF
- 6. Fuel Ouantity CHECK
- 7. Landing/Taxi Lights AS

# REQUIRED SHUTDOWN/SECURING **AIRCRAFT**

- 1. Parking Brake AS REQUIRED
- 2. Avionics Master **OFF**
- 3. Landing and Taxi Lights OFF
- 4. Navigation Lights **OFF**
- 5. Mixture IDLE/CUT OFF

# AFTER PROP STOPS...

- 6. Ignition Switch **OFF**
- 7. Key **REMOVE** 8. Master Switch OFF
- 9. Fuel Selector **LEFT or RIGHT**
- 10. Control Lock INSTALL
- 11. Tach/Hobbs/Squawks **RECORD**
- 12. Re-Fuel AS NECESSARY
- 13. Tie Down/Chock AS NECESSARY
- 14. Post Flight Inspection **COMPLETE**

### BEFORE TAKEOFF

- 1. Parking Brake AS REQUIRED
- 2. Flight Controls FREE/CORRECT
- 3. Elevator Trim TAKEOFF
- - i. Verify RPM drop.
  - ii. No subsequent RPM rise
- e. Low Idle & Carburetor Heat

- - a. Pax: seat belts, emerg. exits,
  - b. Power loss on departure (density

- 3. Carb Heat OFF

### EMERGENCY PROCEDURES

### **BALKED LANDING (Go-Around)**

- 1. Throttle **FULL**
- 2. Carburetor Heat PUSH COLD
- 3. Wing Flaps 20 DEGREES
- 4. Airspeed 65 MPH
- 5. Climb to Clear Obstacles
- 6. Wing Flaps **RETRACT SLOWLY**

### SHORT FIELD TAKE-OFF

- 1. Wing Flaps 0 DEGREES
- 2. Carburetor Heat **PUSH COLD**
- 3. Brakes APPLY and HOLD
- 4. Throttle FULL POWER
- 5. Brakes RELEASE ACCEL. TO 60 MPH
- 6. Climb at Vx (65 MPH) UNTIL CLEAR OF OBSTACLE
- 7. Wing Flaps ACCELERATE & RETRACT
- 8. Climb Speed 75 to 85 MPH

# SHORT FIELD LANDING

- 1. Approach SAME AS NORMAL LANDING
- 2. On final **POWER IDLE**
- 3. Flaps **40 DEGREES**
- 4. Airspeed 65 MPH
- 5. Touchdown MAIN WHEELS FIRST
- 6. Lower Nose Wheel Gently & Retract Flaps
- 7. Apply Back Pressure on Yoke
- 8. Brakes as Needed

# SOFT FIELD TAKE-OFF

- 1. Wing Flaps 10 DEGREES
- 2. Roll onto runway without stopping and hold nosewheel off ground
- Smoothly apply full power and hold nose off until aircraft becomes airborne.
- 4. Level off and allow aircraft to accelerate in ground effect.
- 5. Climb at Vx (65 MPH) until clear of obstacles
- 6. Retract flaps & accelerate to Vy (86 MPH @ 2000 lbs).

#### SOFT FIELD LANDING

- 1. Approach same as NORMAL LANDING
- 2. On Final **POWER FAST IDLE**
- 3. Flaps 40 DEGREES
- 4. Airspeed 65 MPH
- Touch Down with power slightly above idle on the main wheels at the slowest possible speed
- 6. Keep nose wheel off ground as long as possible
- 7. Allow surface drag to slow aircraft
- 8. Brakes are normally not required

### PAX BRIEFING (SAFETY)

- S Seatbelt usage/Seat Adjustment
- A Air vent locations, airsickness
- F Fire Extinguisher (not installed)
- E Exits, how to open doors
- T Traffic (callouts) and Talking (sterile cockpit)
- Y Your questions

### AIRSPEEDS:

- $V_x$  63 MPH (at 2000 lbs)\*
- $V_y$  86 MPH (at 2000 lbs)\*
- **V**<sub>ne</sub> **182 MPH**
- **V**<sub>no</sub> **145 MPH**
- $V_{fe}$  100 MPH
- $V_{s1}$  57 MPH
- $V_{s0}$  49 MPH
- V<sub>a</sub> 112 MPH (at 2300 lbs)
- \*Consult POH Section VI to determine speed based on actual weight

### POWER LOSS "ABCDEFG"

- A. AIRSPEED—Achieve Best Glide
- B. BEST landing location—Go there
- C. CHECKLIST—FLOW CHECK
- D. DECLARE emergency—with ATC
- E. EGRESS/ELECTRICAL: Prepare for it, Master OFF prior to landing
- F. FUEL OFF (Prior to landing)
- G. Good Luck

#### POWER LOSS AFTER TAKEOFF

- 1. Maintain Aircraft Control
- 2. Best Glide 80 MPH
- 3. Fuel Selector OFF
- 4. Mixture IDLE/CUTOFF
- 5. Flaps **DOWN**
- 6. Airspeed 65 to 75 MPH
- 7. Master Switch **OFF**
- 8. Ignition Switch OFF
- 9. Doors UNLATCH
- 10. Land in tail-low attitude
- 11. Egress Aircraft

### POWER LOSS IN FLIGHT

- 1. Best Glide 80 MPH
- 2. Carb Heat ON
- 3. Best Landing Location CHOOSE
- 4. Fuel Selector CHECK
- 5. Mixture FULL RICH
- 6. Ignition Switch CHECK ALL
  - a. Consider restarting engine if no damage suspected
- 7. Master ON
- 8. Fuel Primer LOCKED
- 9. If no restart, execute **FORCED LANDING** checklist

#### ENGINE FIRE IN FLIGHT

- 1. Maintain Aircraft Control
- 2. Mixture IDLE/CUTOFF
- 3. Fuel Selector OFF
- 4. Cabin Heat/Air PUSH OFF
- 5. Master Switch OFF
- 6. Airspeed 120 MPH or as needed
- 7. Execute **FORCED LANDING** checklist

### FORCED LANDING

- 1. Best Glide 80 MPH
- 2. Best Landing Location CHOOSE
- 3. Mixture IDLE/CUTOFF
- 4. Squawk 7700
- 5. Radio DECLARE EMERGENCY
- 6. Seat Belt Shoulder Harness CHECK
- 7. Flaps AS NEEDED
- 8. Master and Ignition **OFF**
- 9. Doors UNLATCH
- 10. Land in tail-low attitude

#### **ELECTRICAL FIRE IN FLIGHT**

- 1. Maintain Aircraft Control
- 2. Master Switch OFF
- 3. Cabin Heat/Air PUSH OFF
- 4. Source of fire **TURN OFF**
- 5. Master Switch ON
- 6. If no fire **VENTS OPEN**
- 7. Land as conditions permit

#### ENGINE FIRE DURING START

- 1. Continue cranking engine
- 2. If started, 1700 RPM 1-2 minutes, then shut down.
- 3. If not started
- a. Mixture IDLE/CUTOFF
- b. Fuel Selector OFF
- c. Ignition OFF
- d. Master OFF
- e. Egress Aircraft

#### **ICING**

- 1. Maintain Aircraft Control
- 2. Pitot Heat ON
- 3. Carb Heat **ON**
- 4. Cabin Heat **PULL ON**
- 5. Notify ATC
- 6. Consider 180-degree turn
- 7. Descend to lower altitude
- 8. Increase engine speed
- Flaps **DO NOT LOWER** Land at faster airspeed

#### EXCESSIVE RATE OF CHARGE

# (Overvoltage light illuminates)

- 1. Maintain Aircraft Control
- 2. Master Switch **OFF**, then **ON**
- If light comes on again, 3. Reduce load on battery
- 4. Land as soon as possible

# LOW OIL PRESSURE

1. Maintain Aircraft Control

Check oil temperature. If normal,

2. Land at nearest suitable airfield

If oil temperature rising,

3. Execute FORCED LANDING checklist