

Before Starting Engine

- 1) Preflight complete, documents on board
- 2) Seatbelts & Shoulder Harnesses – FASTENED
- 3) Control Stick – FREE
- 4) Fuel Selector Valve – ON FULLEST TANK
- 5) Brakes – TEST & SET
- 6) Radios and Electrical Equipment – ALL OFF
- 7) Canopy – CLOSED & LATCHED (or hold on to it)

Starting the Engine

- 1) Master Switch – ON
- 2) Beacon – ON
- 3) Fuel Gauges – CHECK
- 4) Carb Heat – COLD
- 5) Throttle – IDLE
- 6) Fuel Pump – ON, check fuel pressure
- 7) Choke – AS REQUIRED (none on a warm day)
- 8) Propeller Area – “CLEAR”
- 9) Starter – ENGAGE, release after engine fires
- 10) Oil Pressure – CHECK
- 11) Throttle to 2500 RPM, then IDLE
- 12) Fuel Pump – OFF, check fuel pressure
- 13) Choke – CLOSED
- 14) Engine Gauges – CHECK (Generator ON in N188EV)
- 15) Volt Meter – CHECK, increases to 13v or more
- 16) Avionics Master – ON
- 17) Beacon & Horizon – ON
- 18) Transponder – ALT & 1200; GPS – ON
- 19) RHV ATIS 125.20, Ground 121.65

Run-up

- 1) **Canopy – CLOSED & LATCHED**
- 2) Brakes – SET
- 3) Flight Controls – CHECK FREE & CORRECT
- 4) Instruments – CHECK & SET, altimeter set to field elevation
- 5) Fuel – CHECK quantity, fuel on fullest
- 6) Elevator Trim – SET FOR TAKEOFF (3 bars from the top)
- 7) Throttle – SET 3500 RPM
- 8) Engine Instruments and Ammeter – CHECK, 14V
- 9) Ignition – CHECK (100 RPM maximum drop)
- 10) Carb Heat – CHECK OPERATION
- 11) Throttle to Idle (1500-2000 RPM)
- 12) Radios – RHV Tower 119.80
- 13) Transponder – ALT & squawk code
- 14) Seatbelts & Shoulder Harnesses – FASTENED

Before Take-off

- 1) **Canopy – CLOSED & LATCHED**
- 2) Flaps – 0° or as desired
- 3) Trim – SET FOR TAKEOFF
- 4) Carb Heat – COLD
- 5) Fuel Pump – ON
- 6) Fuel Selector – FULLEST TANK

Climb

- 1) Initial Climb – Full Power – V_Y 62 KIAS
- 2) Fuel pump – OFF above pattern altitude
- 3) Cruise Climb – Max 5500 RPM – 70 KIAS

Cruise

- 1) Throttle – 4500-5000 RPM (103 KIAS max.)
- 2) Fuel Pump – OFF
- 3) Fuel Pressure – CHECK
- 4) Fuel Quantity – MONITOR & BALANCE
- 5) Engine Instruments – MONITOR

Before Landing

- 1) Radio – RHV ATIS 125.20, TWR 119.80
- 2) Fuel pump – ON
- 3) Fuel Selector – FULLEST TANK
- 4) Landing Light – AS NEEDED
- 5) Carb Heat – AS NEEDED

After Landing

- 1) Flaps – UP
- 2) Carb Heat – COLD
- 3) Lights – OFF/ON as needed
- 4) Fuel pump – OFF
- 5) Trim – SET FOR TAKEOFF
- 6) Transponder – ALT & 1200
- 7) RHV GND 121.65

Shutdown and Securing

- 1) Radios and Electrical Switches – ALL OFF
- 2) Engine – IDLE
- 3) Ignition – OFF
- 4) Controls – Secure lap belt around **left** control stick
- 5) Fill out Hobbs & Tach in binder
- 6) Double check all electrical switches & master OFF
- 7) Canopy & Vents – CLOSED & SECURED
- 8) Check aircraft into Paperless FBO