

# N20068 S.O.P.

**SOLO RENTAL** – prior to student solo or PIC rental an MVP Aviation, LLC Aircraft Rental and Liability Release Agreement must be signed.

**PLANNING** – please wear soft shoes, no heavy boots or open sandals

**PREFLIGHT** - Clean windshield with Prist or Pledge and cotton or microfiber cloth (No paper towels). If available, spray all leading edges with Pledge (easier to clean bugs). No clipboards or headsets on the dashboard (scratches windshield). Doors – please don't slam. Firmly close doors with handles vertical then rotate forward to lock.

## N20068 Checklist

*(Preflight Complete)*

**BEFORE START** below 50° F pre-heat 1hr.

**A.R.R.O.W.** Caps, Chocks & Doors

BRIEF PASSENGER:

Exits, Belts, No Smoking, Fire Extinguisher

## **BEFORE TAKEOFF - START**

Avionics OFF, Master ON

COLD – Mixture rich, add 1 full prime, throttle ¼", crank

HOT – Mixture rich, no prime, throttle open ¼", crank

HOT or COLD – If it fails to start within 5 seconds, pump throttle thus - Cranking:

1–stop at ¼", 2–stop at ¼", 3–stop at ¼"

FLOODED – Wide open throttle for five minutes. With throttle still open, crank three turns, then normal start

COLD - warmup 10 min. LEAN for taxi

**TAXI** - Slowly (7-900 rpm, min. braking) WATCH the wings/obstacles/jet blast

STOP to adjust radios and instruments

WIND – Climb into/dive away from

**RUN-UP** - Mixture rich, 1,700rpm

OilPress/Mags/CarbHeat/Amps/Vacuum

Idle, Radios, Controls free-and-correct

## **TAKE OFF**

- o Fuel on BOTH
- o Mixture rich
- o Start timer/TAXI position
- o DG set for runway heading
- o Smooth wide-open throttle
- o Oil-pressure check
- o Weight off nose/airspeed alive
- o Rotate @ 65mph
- o Trim for 80-90mph
- o Climb to 500'agl before turn

**CRUISE CLIMB** - Throttle back to

22-2300 @ 90mph *hear engine change*

**CRUISE** - At 22-2300rpm/lean-EGT peak (little-rough) then rich until smooth, (4-5 detents). 20068 will cruise at 115mph

- Continued -

## EMERGENCY

**BEST GLIDE – 75 mph**

**ASSURE Landing Location**

**Fuel and Mags on BOTH ?**

**Emergency Checklist (if time)**

Va – 90 mph good for any weight

**BEFORE LANDING** (the pattern)

**DOWNWIND** – 1,900rpm, 90mph, 10°

**ABEAM** touch-down-point **G.U.M.P.S**

**G** Gas selected, Carb heat, 1,500rpm

**u**

**M** Mixture rich

**p**

**S** Speed 90mph, 500fpm, 10° flaps

**BASE** - 80mph, 500fpm, 20° flaps

**FINAL** RPM/throttle as needed

Slow to 70mph, get into ground effect

Slip as needed - normal landing 20° flaps

Short/Soft Field 30° (40° PROHIBITED)

**GROUND EFFECT** Throttle as needed,

(Try 1,500rpm) hold wheels off a few inches @ 61mph

*(Vso is 47mph x 1.3 = 61mph)*

Touch-down <60 mph

**GO AROUND** - Carb heat OFF, mixture RICH, SMOOTH to full-throttle

Positive rate of climb, trim 80-90mph

Flaps - incremental to zero

(10° is OK if staying in the pattern)

**AFTER LANDING** – Wing flaps UP, Carb Heat OFF, LEAN for taxi

**STOPPING ENGINE** – Avionics OFF, Lights OFF (leave Beacon ON), Mixture PULL slowly-clear plugs then OFF

Ignition and Master OFF

**SECURE** - Control Lock, Pitot Cover, Windshield cover, Chocks and Tie-downs

## RECOMMENDED FLAP SETTINGS

Recommended Normal Takeoff Flaps	0°
Recommended Soft/Short Field Takeoff Flaps	10°
Max Go-around Flaps	20°
Recommended Landing Flaps	20°
Max Flap	30°
Soft/Short Field Landing Flaps	30°
Prohibited Flap Setting / Why?	40° /pitch-up, secondary stall risk

## USE OF CARB HEAT

Power settings below 1800 rpm's or when carburetor ice is suspected