

# N55044 CHKLST PA28-180

Version 10-03-2024

## START:

Clock Wind/Set  
Passenger briefing  
Belts/Harnesses ON  
Brakes - ON & SET  
Switches & **AVIONICS MAIN OFF**  
Fuel on Lower Tank  
Key in Ignition  
Master Switch (BOTH sides) – ON  
Fuel Pump – ON (Ck Pressure)  
Anti-collision Lights – ON  
Carb Heat – OFF  
Mixture – RICH  
Throttle Cracked ( $\frac{1}{8}$ " –  $\frac{1}{4}$ ")  
Prime & Lock  
CLEAR PROP & Start  
Throttle 1200→1000 rpm

## WARM UP:

**4 PRESSURE CHECK:**  
Oil, Loadmeter (chk w/load),  
Fuel w/pump OFF, Vacuum  
Lights/Strobes ON  
LEAN  
Avionics Main – ON  
GTN650 CK: database, selftest  
ADS-B CK: flight ID & ALT  
Circuit Breakers check  
Nav Ground Check (VOR)  
Radios Tuned → Copy ATIS  
Altimeter and HI Set/Check

## SWITCH TANKS

Contact Grd → Brief Taxi Route  
Taxi: Brake check /  
Instruments Check

## RUN-UP:

Brakes ON  
Check: Oil Temp in Green  
Mix RICH  
**RUN-UP** to 2000 rpm  
Check Engine Gauges  
Check vacuum ( $5" \pm 0.1$ )  
Check Magnetos (175/50)  
Check Carb Heat ON/OFF  
Alt Static Source TEST  
Throttle Idle → Standby Vac  
Throttle 1000 rpm

## BEFORE TAKE-OFF:

Check Flight Instr & CBs  
Transp/Comm/Navs SET  
Controls Free & Correct  
Check Flaps: 10°, 25°, 40°  
Trim Set

Fuel on Proper Tank  
Mixture RICH  
Fuel Pump – ON  
Carb Heat OFF  
Primer IN & Locked

Belts/Harnesses ON  
Secure Door and Window

## **TAKE-OFF BRIEFING**

Clearance for Takeoff →  
Landing Light ON, Transpr Ck,  
Time & Final noted  
HI to Rwy, Wind & Power Ck,  
Oil & Fuel pressure, AS  
Rotate 50-60 mph  
Airborne 70 mph

**Speeds (mph):** Vr: 60 Vso: 61  
Vs: 68 Vx: 74 Vy: 85  
Va: 127 max / 120 med / 110 lgt  
**Best Glide: 80 Cruise Climb: 100**

## CRUISE: "Lightening Check"

Fuel Pump OFF and TRIM  
Gauges & HI Check  
Fuel Management  
Lean above 3K'  $\leq$  75% HP  
BP: 125 ROP  
BE: Peak or +50 Rich

## MANUEVERING:

Pre-landing check  
Choose emergency field  
Clear area for traffic

## DESCENT:

Set Audio Panel:  
Freq – Twr/CTAF, Grd  
Get ATIS/AWOS  
Altimeter SET  
HI Set to Mag Compass  
Mixture Adjust  
Radio Call

## APPROACH & LANDING:

Seat Belts ON

Fuel on Proper Tank  
Mixture RICH  
Fuel Pump – ON  
Carb Ice Check  
Primer IN & Locked

**Flaps** → within white arc  
(Vfe=115mph)

## **Approach Speed**

85 mph w/no flaps;  
75 to 80mph w/flaps

**Check wind & x-wind** on final

## AFTER LANDING:

Flaps up  
Fuel Pump OFF  
Landing Light/Strobes OFF  
LEAN for taxi

## SHUTDOWN:

Brakes ON and SET  
Confirm Switches OFF  
**Avionics Main OFF**  
Throttle IDLE → Hot Mag Chk  
Throttle to 1200 rpm, count 10  
Mixture IDLE/CUTOFF  
*Once prop stops:*  
Magnetos – OFF  
Master – OFF  
Beacon – OFF  
Parking Brakes – As Needed

Hobbs Time  
Controls Secure  
Door/Window Locked  
Tiedown or Chocks ON

## **CLOSE FLIGHT PLAN**

|    | 75% HP |      |     |
|----|--------|------|-----|
| DA | STC    | RPM  | TAS |
| SL | 15     | 2400 | 123 |
| 1K | 13     | 2430 | 125 |
| 2K | 11     | 2460 | 127 |
| 3K | 9      | 2490 | 129 |
| 4K | 7      | 2530 | 131 |
| 5K | 5      | 2550 | 133 |
| 6K | 3      | 2580 | 135 |
| 7K | 1      | 2520 | 137 |
| 8K | -1     | 2650 | 139 |

