

N55044 CHKLST PA28-180

Version 12-28-2022

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, Fuel w/
pump OFF, Vacuum
Loadmeter – Ck with load
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

