

N55044 CHKLST PA28-180

Version 12-4-2025

START:

Clock Wind/Set → Dispatch
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 (1/8" – 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

Taxi to Compass Rose →
Brake Chk / Instruments Chk

RUN-UP: (brakes ON)

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

Throttle 1000 rpm
LEAN
Check Flight Instr & CBs
Transp/Comm/Navs SET
Controls Free & Correct
Check Flaps: 10°, 25°, 40°
Trim Set

TAKE-OFF BRIEFING

Contact Grd → Brief Taxi Route

BEFORE TAKE-OFF:

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

Belts/Harnesses ON
Secure Door and Window
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

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' ≤ 75% HP
BP: 125 ROP
BE: Peak or +50 Rich

MANUEVERING:

Choose emergency field
Pre-landing check
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
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

Check in airplane

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

