

N55044 CHKLST PA28-180

Version 7-29-2026 – [IFR checks]

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)
FIN Beacon Lgt – confirm ON
Carb Heat – OFF
Mixture – RICH
Throttle Cracked ($\frac{1}{8}$ " – $\frac{1}{4}$ ")
Prime & Lock
CLEAR PROP & Start
Throttle 1000 rpm

WARM UP:

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

SWITCH TANKS

Taxi to Compass Rose →
Brake/Steering/Instrument Chk

RUN-UP:

Brakes ON; 1000 rpm
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
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:

Switch to Tower

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 noted, Final ck'd

REACT on roll: RPM, Engine
gauges, AS, CL, T-off pt

Speeds (mph): Vr: 60 Vso: 61
Vs: 68 Vx: 74 Vy: 85 Vfe: 115
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:

Choose emergency field
Pre-landing check
Clear area for traffic

DESCENT:

Set Audio Panel:
WX, Twr/CTAF, Grd
Get ATIS/AWOS
Altimeter & HI SET
Mixture Adjust
Navs SET – VOR, GPS
[Brief Approach: how long (MAP),
how low (MDA, DA), which way
(missed procedure)]

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

Approach/Landing Speeds

90 mph approach procedure
85 mph w/no flaps
75 to 80mph w/flaps

Check wind on final

AFTER LANDING:

Flaps up
Fuel Pump / Ldg Lgt OFF
WNG Strobes OFF
LEAN for taxi

SHUTDOWN:

Brakes ON
Avionics Main OFF
Throttle IDLE → Hot Mag Chk
Throttle to 1100 rpm (10 sec)
Mixture LEAN/CUTOFF
Once prop stops:
Magnetos – OFF
Master – OFF
FIN Beacon – REMAINS ON
CO detector - OFF
Parking Brakes – OFF

Hobbs Time → **Check-in**

CLOSE FLIGHT PLAN

Controls Secure
Door/Window Locked
Tiedown or Chocks ON

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

