

# Checklist HB-PKS

## PA46-DLX



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**AIRSPEEDS**

○ rotation speed flaps 10°		Vr	80	KIAS
○ rotation speed flaps 20°		Vr	69	KIAS
○ best rate of climb speed		Vy	110	KIAS
○ best angle of climb speed		Vx	90	KIAS
○ recommended climb speed			140	KIAS
○ maneuvering speed	4300 lbs	Va	137	KIAS
	2905 lbs	Va	112	KIAS
○ max. operating limit speed		Vmo	172	KIAS
○ max. flaps extended speed Vfe		10°	169	KIAS
		20°	134	KIAS
		36°	117	KIAS
○ max. landing gear extension speed		Vlo	169	KIAS
○ max. landing gear retraction speed		Vlo	130	KIAS
○ max. landing gear extended speed		Vle	172	KIAS
○ max. crosswind landing			17	KTS

**WEIGHTS**

○ max. ramp	4318 lbs
○ max. take off	4300 lbs
○ max. landing	4100 lbs
○ max. zero fuel	4100 lbs
○ basic empty	3160,77 lbs
○ useful load	1157,23 lbs

**ENGINE LIMITATIONS (PT6A-34)**

○ Engine Start	1337 lbs trq	850°C ITT (1090°C ITT for 2 sec.)
○ Takeoff	1337 lbs trq	790°C ITT
○ Climb	1337 lbs trq	740°C ITT
○ Cruse	1337 lbs trq	740°C ITT
○ Reverse	550 lbs trq	790°C ITT
○ Idle		685°C ITT

**BEFORE STARTING ENGINE**

Aircraft & Cockpit Inspection ..... completed  
Door Pins ..... checked 4 green  
Seatbelts ..... fastened  
Parking Brake ..... set  
Gear Lever ..... down and locked  
Emergency Gear Knob ..... check and secured  
Circuit Breakers ..... check  
All electrical Switches ..... off  
Avionic Master Switch ..... off  
Alternate Static Source ..... closed  
Cabin Altitude Selector ..... airport elevation +500ft  
Cabin Altitude Rate Control ..... set  
Cabin Pressurization Control ..... set in  
Cabin Dump Switch ..... normal  
Oxygen Pressure Gage ..... check green  
Oxygen Masks ..... check connected  
Ground Clearance Switch ..... on  
ATIS ..... check  
Start Up Clearance ..... request  
Ground Clearance Switch ..... off

**STARTING ENGINE**

Fuel Shut Off Lever ..... up and locked  
Fuel Condition Lever ..... off  
Propeller Control Lever ..... full forward  
Power Control Lever ..... idle  
Battery Master Switch ..... on  
Battery #1 & #2 ..... check >22 V  
Battery Select Switch ..... both  
Fuel Transfer Pump L & R ..... check (then reset to auto)  
Emergency Fuel Pump ..... check  
Fuel Selector ..... fuller tank  
Header Tank ..... full  
Manual Override Switch ..... guarded & light out  
Ignition ..... on > check spark  
Fuel Boost Pumps #1 & #2 ..... check and on  
Propeller Area ..... clear  
Starter ..... on (check voltage >15 V)  
Fuel Condition Lever ..... full forward @ 15% Ng  
Oil Pressure ..... check  
ITT ..... monitor (max. 850°C)  
Starter ..... off @ 52% Ng  
Ignition ..... off  
Battery Select Switch #1 ..... on  
Alternator ..... on (charge each Battery 30 sec.)  
Battery Select Switch #2 ..... on  
Generator ..... on  
Alternator ..... off  
Battery Select Switch ..... both  
Suction ..... check

**BEFORE TAXI**

Avionic Master Switch ..... on  
Navigation Lights..... as required  
Defroster & Heating ..... as required  
Autopilot Test Button.....press  
Autopilot..... engage  
Autopilot Test on PFD ..... disconnect  
Altimeters 3x ..... check  
Directional Gyros 2x..... check  
Horizons 3x ..... check  
Wings .....clear  
Taxi Light ..... on  
Parking Brake ..... off

**TAXI**

Brakes & Steering ..... check  
Gyro Instruments ..... check  
Reverse..... check

**GROUND CHECK (first flight of the day only)**

Parking Brake ..... on  
Taxi Light ..... off  
Volt- & Ammeter ..... check  
Engine Instruments ..... check  
Fuel Pressure ..... check  
Overspeed Governor Test..... check @ 2020 RPM  
Standby Vacuum Pump ..... check and off  
Propeller Control ..... check @ 1500 RPM  
Manual Override ..... check and off  
Annunciator Panel ..... check  
Pitot & Stall Warning Heat ..... check  
Ice Protection..... check

**BEFORE TAKEOFF**

Fuel Shut Off Lever ..... up and locked  
Fuel Condition Lever ..... full forward  
Propeller Control Lever ..... full forward  
Elevator & Rudder Trim ..... set  
Flaps ..... set 10°  
Flight Controls ..... check  
Flight Instruments ..... check  
Engine Instruments ..... check  
Fuel Boost Pump ..... on (#1 or #2)  
Header Tank ..... full  
Fuel Selector ..... fuller tank  
Fuel Transfer Pump ..... check on auto  
Air Conditioner ..... off  
Oil Door ..... open  
Door, Belts, Window, PAX secured ..... check

**IFR Flight-Preparation**

ATC clearance & SID ..... read  
Avionics ..... set  
Audiopanel ..... check  
HDG-Bug ..... set  
GPS Mode ..... set  
Transition Altitude ..... check  
Takeoff Briefing ..... completed

**VFR Flight-Preparation**

Outbound Routing & Noise Abatement ..... check  
Transponder ..... set VFR  
Takeoff Briefing ..... completed

**LINEUP**

Approach Sector & Runway .....clear  
Ignition ..... on  
Landing & Taxi Lights..... on  
Strobe Lights ..... on  
Stall Warning & Pitot Heat ..... on  
Ice Protection ..... as required  
Gyros ..... check  
HDG-Bug ..... set RWY-HDG

**TAKEOFF / CLIMB**

Power ..... set (max. 1300 ft-lbs Torque  
Vr ..... 80 KIAS  
Positive Climb Rate..... Brakes / Gear up  
Yaw Damper ..... on  
Flaps ..... up (at 100 KIAS)  
Landing Light ..... off  
Taxi Light ..... on (until passing 10'000 feet, then off)  
Ignition ..... auto  
Altimeter at Transition Altitude .....set 1013 mb  
Cabin Pressurization ..... check  
Engine Instruments ..... check

**CRUISE**

Altimeter ..... check  
Power ..... set by power chart  
Fuel Tanks ..... balanced  
Cabin Pressurization ..... check  
Engine Instruments ..... check  
Ice Protection ..... as required

**DESCENT**

ATIS ..... received  
Briefing ..... completed  
Circuit Breakers ..... check  
Direction Gyros ..... check  
Electrical Heating ..... as required  
Further planning & Fuel ..... check

*starting descent*

Power ..... set 300-500 ft -lbs-Torque  
Cabin Pressurization ..... set field elevation + 500ft  
Taxi Light ..... on (below 10'000 feet)

*cleared down to altitude*

**APPROACH**

Altimeter ..... set to QNH  
Landing Light ..... on  
Fuel Selector ..... fuller tank

**FINAL**

Landing Gear ..... check down, 3 green  
Flaps ..... set  
Ignition ..... on  
Cabin Pressure ..... depressurized  
Air Condition ..... off  
Yaw Damper ..... off  
Autopilot ..... off  
Propeller Control Lever ..... slowly full forward  
Final Approach Speed ..... 80 KIAS

**AFTER LANDING**

Ignition ..... off  
Landing Lights ..... off  
Taxi Light ..... on  
Strobe Lights ..... off  
Stall Warning & Pitot Heat ..... off  
Propeller Heat ..... off  
Windshield Heat ..... off  
Radar ..... stby  
Flaps ..... up  
Rudder & Elevator Trim ..... neutral

**ENGINE SHUTDOWN**

Parking Brake .....set  
Taxi Light ..... off  
Power Control Lever ..... idle  
Avionic Master..... off  
Ground Clearance Switch ..... off  
All Electrical Switches ..... off  
Generator..... off  
Propeller Control Lever ..... feather  
Fuel Condition Lever ..... off ( $N_p < 400\text{RPM}$ )  
Fuel Boost Pump ..... off ( $N_g < 10\%$ )  
ETM .....check flight time  
Battery Master..... off  
Battery Select Switch ..... select #1