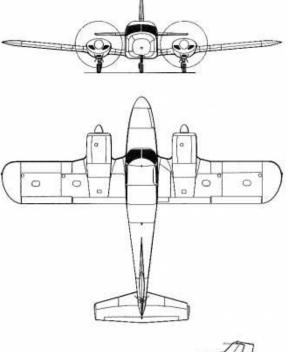
KANATA AVIATION TRAINING

CHECKLIST PA 23-250 Piper AZTEC



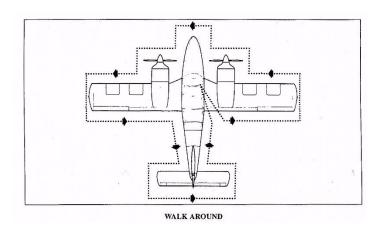


ORIGINAL VERSION MARCH 2022

PREFLIGHT INSPECTION

INSIDE CABIN

•	Landing Gear control Avionics Switch Fuel pumps	Neutral Position OFF OFF
•	Mags	OFF
•	Flaps (Manual Pump)	Down
•	Alternators switches	ON
•	Alternate Static Source	Drain
•	Circuit Breakers	Check all in
•	Heater Switch	OFF
•	Trims (Pitch & Yaw)	Take-off
•	Cowl Flaps	Open
•	Master Switch	ON
•	Landing gear lights	3 GREEN
•	Fuel Quantity	Min 70 Gal (1/2 tanks)
•	Cross feed	ON
•	L/H fuel pump	ON
•	Cross feed line	Drain
•	L/H fuel pump	OFF
•	R/H Fuel pump	ON
•	Cross feed line	Drain
•	R/H fuel pump	OFF
•	Cross feed	OFF
•	Door Ajar light	ON
•	Int/Ext lights	CHECKED
•	Master Switch	OFF
•	Emergency Window	Secure
•	Exterior Inspection	Complete



OUTSIDE CABIN

- Crossfeed drains
- Right wing aileron and flap
- Right main gear
- Strut
- Tire
- Right Fuel vents
- Right leading edge
- Fuel Cap
- Right engine nacelle
- Right Propeller
- Cowl FlapsFuel drains
- Nose section
- Nose Gear
- Strut
- Tow bar
- Landing light

- Forward baggage door
 - Windshield
- Left engine nacelle and landing gear
- Pitot Tube
- Stall warning vanes
- Anti retraction switch
- Dorsal fin air scoop
- Empennage
- Stabilator

verify no leak

Check, no ice

Proper inflation

No leaks

check clear

Check, no ice

Check oil [6-10 Qts]

OPEN and secure

Proper inflation

Check

Check

Drain Check

No leaks

Check

Removed and stowed

Open, check qty, and color, secure

- Antennas
- Navigation and landing lights Check
- Wheel chocks and tie down

PASSENGER BRIEFING

Secures, locked, key removed

Check as right side

Clear, checked

Check, no ice

Clean

Check

Check

Clear

Free

Check

Removed

- Seat & Belt Adjustments
- No Touch Controls & Instruments
- Doors and Emergency Exit.
- Fire Extinguisher
- First Aid Kit
- Quiet During Radio Calls
- Look for Traffic
- ELT /

In the event of a forced landing

Stay calm Remove glasses and pen Unlatch door Exit towards back

BEFORE STARTING ENGINE

- Aircraft documents
- Pilot Documents
- Flight Plan /Itinerary
- Transponder code
- Flight sheet

On board On board Filed Obtained if required

Filled

STARTING ENGINE

 Hobbs / Time 	Noted
 Seats 	Adjusted
 Seat Belts and harness 	Fasten/adjusted
 Parking Brake 	Set
 Circuit breakers 	In
 Radios 	OFF
 Cowl flaps 	Open
 Alternate Air 	OFF
 Alternators 	ON
 Master Switch 	ON
 Beacon 	ON
<mark>1 ENGINE AT A TIME</mark>	
 Fuel Selector 	Outboard
 Mixture 	Idle cut-off
 Throttle 	½" FORWARD

Prop Control	FULL FORWARD	
Magnetos	ON	
Cross feed	OFF	
Fuel Pump	ON	
Mixture	Full rich (5-10 sec) for FF	
Mixture	ICO	
Starter	Engage	
Mixture	Increase to full as engine starts	
Throttle	1000 RPM	
Oil Pressure	Check	
Suction	Very red ball disappeared	
Ammeter	Check	
Mixture	Lean for taxi	
REPEAT for OPPOSITE ENGINE		

STARTING FLOODED ENGINE

I	Mixture	Idle Cut-Off
I	Throttle	FULL FORWARD
I	Propeller	FORWARD
I	Master Switch	ON
I	Ignition Switches	ON
I	Fuel pump	OFF
I	Propeller	Clear
I	Starter	Engage
I	Throttle	Retard when engine fires
I	Mixture	Advance slowly

DRIMIA ERATIONS

AFTER START

- Cross feed ON Left fuel tank OFF UP Flaps Heater As required **Avionics Master** ON Valid **GPS** Database Slaved & Accurate HIS Transponder Standby Altimeter
- Antimeter
- Radios
- TAXIING
- Left fuel Tank
- Right fuel tank
- Taxi light
- Navigation lights
- Taxi Clearance
- Throttle
- Brakes
- Steering
- Instruments

	Set
Set & T	est as applicable
NG	
	Inboard
	OFF

- OFF
- As required As Applicable
- Apply slowly
- Check
- Check
- Check

RUN UP BEFORE TAKE-OFF

•	Parking brakes	ON
•	Right fuel tank	Inboard
•	Cross feed	OFF
•	Mixture control	FORWARD
•	Prop Control	FORWARD
•	Throttle Control	1500 RPM
•	Prop Control Check Feathering	, 500 RPM max drop
•	Throttle control	2200 RPM
•	Prop Control x3(MP,RPM,oil Press)	Check
•	Alternate Air	Check
•	Magnetos Check drop. 125RPM n	nax. Diff drop 50RPM
•	Alternator Output	Check
•	Gyro Pressure gauge	Check
•	Throttle	idle then 1000 RPM
•	Engine gauges	in the Green
•	Cowl flaps	Set
	Seat backs	Erect
•	Wing flaps	Set
•	Trim	Set
	Seat belts/harness	Fasten / adjust
•	Controls	Free, full travel
	Doors	Latched
	Pitot heat	As required
•	Transponder	ALT
•	Time	Noted
•	Landing light	ON

TAKEOFF BRIEFING

This is going to be a (Normal/short/x-wind take-off). In case of engine hesitation or failure on runway, both throttles back, max braking, exit runway advise ATC taxi-back to investigate. In case of engine failure after rotation below 102MPH (VYSE) and with enough remaining runway, both throttles back land on remaining runway.

If no remaining runway or if failure after 102MPH (VYSE), IVF (Identify, Verify and Feather) Maintain VXSE (97MPH) if obstacle. When cleared or if none maintain VYSE (102 MPH).

VFR = Circuit and return for landing

IFR = *Advise ATC as soon as Possible for desired intention*

Only communication regarding the flight is permitted until at least 1000AGL or higher as directed by PIC

TAKEOFF

Do not exceed 40 in. Hg. Manifold pressure. Fast taxi turns immediately prior to takeoff run can cause temporary malfunction of one engine during takeoff. Normal sea level takeoff at 39 in. Hg. and 2575 RPM. Adjust mixture prior to takeoff from high elevations. Do not over heat. Do not exceed 40 in.Hg. manifold pressure.

NORMAL TAKEOFF (Flaps up

- Flaps
- Throttles

1500 RPM

UP

- Engine gauges
- Throttles
- Rotate
- After breaking ground,
- Gear
- Climb speed

Check in the green

- Full
- 85 MPH (Vmc+5)
 - 102MPH (VYSE)
 - Tap Brakes and UP
 - 120MPH (VY)
- ____(

Set

Set

Adjust

Monitor

As required

OFF (check FF)

Time the switch

After Take-off at +1000 AGL

Flaps and Gear	confirm UP
Climb Power	26"-2400RPM
Engine gauges	In the green
Taxi and Landing light	OFF
Cowl flaps	as required

CRUISING

- Power
- Propellers
- Mixture
- Cowl Flaps
- Fuel pumps (1 at a time)
- Fuel Tanks
- Engine gauges

Suggested power setting

↑	ALTITUDE	ΜР	RPM	GPH
NORMAL	4000	26	2400	34
INTERMEDIATE	6000	24	2400	31
ECONOMY	6400	24	2200	28.2
PRACTICE AREA/Long range cruise	6500	22	2200	26

APPROACH AND LANDING

As required to fit with traffic Airspeed Seat belts and harness fasten/adjust Check for proper tank Fuel selectors Cowl flaps Closed ON Fuel pumps Landing & Taxi lights ON Mixture controls as a/c descends Rich Flaps 1:160MPH Gear Down 150 MPH Wait for handle Land gear lights 3 Green and Mirror 2: 140 MPH Flaps Flaps 3: 125 MPH Full fwd on final Propellers Brake pressure Check

Short Final Call out

TWO RED TWO BLUE THREE GREEN, MIRROR CONFIRM RUNWAY IN SIGHT STABLE CLEARED TO LAND

AFTER LANDING

When clear of runway:

- Flaps (confirm before selecting)
- Cowl Flaps
- Heater (if used)
- Landing time
- Transponder
- Fuel Pumps

- Landing light
- Pitot Heat
- Mixture
- Taxi Clearance

SHUTDOWN

Throttle 1000RPM . Radio 121.5Mhz listen Radio Back to 123.0 Taxi light OFF OFF Avionics master FAN OFF if 2min or more All lights except beacon OFF Dead magnetos Check Mixture ICO . OFF Magnetos Fuel pumps Test OFF . Master Switch Hobbs/Time Noted

OFF OFF

Lean for Taxi Obtain if required

UP Fully OPEN FAN

- FAN Noted Standby
- Standby OFF

EMERGENCY PROCEDURES

AIRSPEED FOR SAFE OPERATIONS

 VMC 	80 MPH
 VYSE (Blue line) 	102MPH
■ VY	120 MPH
 VXSE 	97 MPH
■ VX	107 MPH
■ VA	149 MPH
VNE	249 MPH
 Single engine Cruising speed 	138 MPH

ENGINE INOPERATIVE PROCEDURES

ENGINE SECURING PROCEDURE (FEATHERING PROCEDURE)

To attempt to restore power prior to feathering:

 Mags 	Check
 Fuel Pump 	ON
 Mixtures 	As required
 Alternate Air 	Check
 Fuel Selector 	Switch tanks
 Cross Feed 	ON

If engine does not start, Feather before RPM drops below 1000RPM.

•	Throttle	Idle
•	Propeller	Feather
•	Mixture	ICO
•	Fuel pump	Off
•	Fuel selector	Off
	I del selector	OII

ENGINE FAILURE DURING TAKEOFF (Below 85 MPH)

If engine failure occurs during takeoff and 85 KIAS has n	ot been
attained:	
Throttles CLOSE both immediately	
Stop straight ahead.	
If inadequate runway remains to stop:	
Throttles	CLOSED
Brakes apply	max.braking
Master switch	OFF
Fuel selectors	OFF
Continue straight ahead, turning to avoid obstacles.	

ENGINE FAILURE DURING TAKEOFF (85 MPH or above)

If engine failure occurs during takeoff ground roll, or after lift-off with gear still down and 85 KIAS has been attained:

If adequate runway remains CLOSE both throttles immediately, land if airborne and stop straight ahead.

If runway remaining is inadequate for stopping, decide whether to abort or continue. If decision is made to continue, maintain heading and airspeed, retract landing gear when climb is established and feather inoperative engine prop (see Engine Securing Procedure).

ENGINE FAILURE DURING FLIGHT

- Rudder apply toward operative engine Rich
 - Mixture
- Propeller
- Throttle
- Gear
- Flaps

- Inop. Eng identify
- Inop. Eng verify
 - Throttle back to confirm

Full Fwd

Full

UP

UP

Dead foot-Dead Engine

	lj	^c no fire	and r	ion ci	ritical	moment	of	flight,	Troubleshoot
--	----	----------------------	-------	--------	---------	--------	----	---------	--------------

•	Mags	Check
•	Fuel Pump	ON
•	Mixtures	As required
•	Alternate Air	Check
•	Fuel Selector	Switch tanks
•	Cross Feed	ON

If engine does not restart secure it before rpm drop below 1000

FUEL MANAGEMENT: CROSS FEEDING

- Cross feed Fuel Selector Inop engine
- Select Tank

ON

•	Fuel pump inop engine	ON
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- Fuel selector good engine OFF
- Fuel pump good engine OFF

SINGLE ENGINE LANDING

•	Inop. engine prop	feather
	When certain of making field:	
•	Landing gear	extend
•	Wing flaps	lower
•	Maintain additional altitude and s	speed during approach.
•	Final approach speed	102 MPH
	Wing flaps	¹ /2 unless a short rwy

SINGLE ENGINE GO-AROUND (Avoid if at all possible.)

•	Mixture	forward
•	Propeller	forward
•	Throttle	open slowly to Full
•	Flaps	retract
•	Landing gear	retract
•	Airspeed	102 MPH
•	Trim	set
•	Cowl flap operating engine	as required

AIR START (UNFEATHERING **PROCEDURE**)

- Fuel selector inop. engine
- ON open 1/2 inch Prop control forward to cruise RPM position ICO or full to prime then ICO
- Mixture

Throttle



Magnetos

- Starter
- Mixture
- Throttle
- Oil Pressure & temp Throttle
 - Look for a rise Back to cruise when gauge in green

ON

Engage

1000-1400 rpm

Enrich as engine starts

ENGINE FIRE ON GROUND

- If engine has not started:
- Mixture

Throttle

Starter

idle cut-off

- open
- crank engine If engine has already started and is running, continue operating to try pulling the fire into the engine.
- If fire continues, extinguish with best available means. *If external fire extinguishing is to be applied:*
- Fuel selector valves
- Mixture

OFF idle cut-off

ENGINE FIRE IN FLIGHT

Affected engine:

- Fuel selector OFF Throttle close Propeller feather Mixture idle Cut-off OFF Heater
- Defroster OFF

MANUAL EXTENSION OF LANDING GEAR

Check following before extending gear manually:

- Circuit breakers Check
- Master switch ON Alternators Check
- Navigation lights OFF (daytime) To extend, position handle down and proceed as follows:
- reduce (150MPH Max) Airspeed
- Gear selector **GEAR DOWN LOCKED position**
- Emerg. Hydraulic pump handle Pull
- Hydraulic handle Pump up and down (approx. 50 times) 3 green
- Indicator lights
- Landing gear handle
 - Land As soon as possible

If unable to extend gear with hydraulic pump handle

- Landing gear Handle DOWN
- Raise firing ring cover under left front seat
- Pull ring as far as possible

After operating CO2 system the landing gear should not be operated and the handle should not be moved until repairs are done.

PROPELLER OVERSPEED

Throttle

.

- Throttle
- Land as possible

- REDUCE
- Increase as necessary

Neutral



EMERGENCY PROCE

ELECTRICAL FAILURES

In the event of failure of the voltage regulating system; an abnormal operation may be indicated by a zero output on both alternators position and discharge on the battery position. To energize the auxiliary system:

- Aircraft electrical load
 Reduce
- Voltage regulator selector
 AUX
- CB Reset **EXCEPT** "MAIN" voltage regulator breaker
- Turn Load Back ON

If this fails to maintain correct output while using AUX

	Electrical load	Reduce
•	Master switch	OFF
•	Both Alternators	OFF
•	CB "MAIN" and "AUX"	RESET
•	Master Switch	ON
•	Alternator Reset	1 at a time

Very load does not exceed output capability

GYRO PRESSURE FAILURES

Pressure below 4.5 in Hg. RPM increase to 2575 Altitude descend to maintain 4.5 in Hg Use electric turn indicator to monitor Directional Indicator and Attitude Indicator performance.

COMBUSTION HEATER OVERHEAT

Unit will automatically cut-off. Do not attempt to restart.

SPINS

Throttles

Ailerons

Rudder Control wheel

Control wheel

Control wheel

Rudder

retard to idle full opposite to direction of spin release back pressure full forward if nose does not drop neutral neutralize when rotation stops smooth back pressure to recover from dive

EMERGENCY DESCENT

Throttles	closed
Propellers	full forward
Mixture	as required for smooth operation
Landing gear	extend
Airspeed	150 MPH

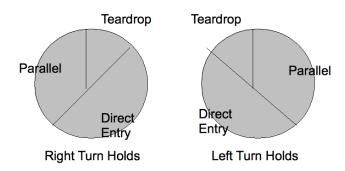
IFR PROCEDURES

TAKE-OFF CLEARANCE

C-GSYH cleared to ______airport, SID procedure (if applicable) depart runway______flight planned route (or modified), squawk code _____

Hold Procedure

- T : Type of entry
- S: Speed for the hold (less than 175KIAS)
- A: Altitude as per holding instructions
- F: Fuel (destination-Alternate +45min)
- E: Expect Further clearance time
- T: Turn into the hold
- T: time when wings level and at proper position
- T: Twist for inbound course
- T: Track, correcting for wind
- T: Talk, advise ATC entering the hold and established if Not radar ID



APPROACH

WARGGAME

W: Weather
A: Altimeter setting
R: radio Set Up
G: GPS load approach
G: Gyro reset if applicable
A: Altitude correction if applicable
M: Missed approach Procedure
E: Expected procedure : Brief plate from top to bottom

NOTES

PA23-250D SPEEDS

* VS0:	68 MPH
* VS:	74 MPH
✤ VFE:	125 MPH
∻ VX:	107 MPH
* VY:	120 MPH
* VMC:	80 MPH
* VYSE:	102 MPH
* VXSE:	97 MPH
↔ VA:	149 MPH
♦ VNO:	216 MPH
* VNE:	249 MPH
✤ VSSE:	120 MPH KIAS

✤ Max. demo x-wind: 15 Kts