

POH/AFM takes priority over this checklist.

PIPER ARCHER II (KNOTS) G5S

NORMAL OPERATIONS

EMERGENCY PROCEDURES

(REVERSE) Updated October 9th, 2022

RUNWAY ENTRY

Time for Lights, Camera, Action, Traffic	
Timer STAF	₹T
LightsLANDING & ANTI-COL. C	N
TransponderVERIFY CODE/A	LT
Mixture RIC	Н
Electric Fuel PumpC	N
Carb HeatCOL	LD
TrafficVERIFY RWY/APCH CLEA	٩R
Runway NumberCONFIR	łΜ
Heading/Compass MATCHES RV	۷Y

NORMAL TAKEOFF

Flaps		UP
Throttle		FULL
Engine Instruments.	"GF	REEN"
Engine RPM	. AT LEAST "2300	RPM"
Airspeed	"A	LIVE"
Rotate	60 KIAS "RO	TATE"
Climb	80	KIAS

SHORT FIELD TAKEOFF

Flaps	25° (SECOND NOTCH)
Brakes	HOLD
Throttle	FULL
Engine Instruments.	"GREEN"
Engine RPM	AT LEAST "2300 RPM"
Brakes	RELEASE
Airspeed	"ALIVE"
Rotate	50 KIAS "ROTATE"
Pitch	15°
Climb	65 KIAS
Obstacle	CLEARED
Flaps	UP
	80 KIAS

SOFT FIELD TAKEOFF

Flaps	25° (SECOND NOTCH
Brakes	NONE
Control Wheel	FULL AF1
Throttle	SLOWLY ADVANCE FULL
Engine Instrument	s "GREEN
Engine RPM	AT LEAST "2300 RPM
Airspeed	"ALIVE
Main Gear	LIFT OFF
Pitch	NOSE OVER
Ground Effect	MAINTAIN TO 75 KIAS
Flaps	UF
Climb	80 KIAS

AFTER TAKEOFF (400' AGL)

Airspeed	80 KIAS
Flaps	UP
Engine Instruments	GREEN
Electric Fuel Pump	OFF
Fuel Pressure	CHECK
Landing Light	AS REQ'D

CRUISE Trim AS REQUIRED Brakes

Engine Instruments	CHECK
Mixture	LEAN AS REQUIRED
FGT 50°F/30	I°C Rich of Peak

SWITCH FUEL TANKS

Electric Fuel Pump	ON
Fuel Selector	SWITCH
Fuel Flow	CHECK (10 SEC)
Electric Fuel Pump	OFF
Fuel Flow	CHECK

DESCENT / APPROACH

ATIS/AWOS	CHECK
Altimeters	SET
Top G5,	Standby
Clearance	OBTAIN
Radios/GPS	TUNE/IDENT
Approach Briefing	COMPLETE
Fuel Selector	FULLEST TANK
Lights	AS REQUIRED
Mixture	SLIGHTLY ENRICH

PRE-LANDING

Fuel Selector	. FULLEST TANK
Mixture	RICH
Electric Fuel Pump	ON
Lights	AS REQUIRED
Flaps	AS REQUIRED
Seatbelts	FASTENED

NORMAL LANDING

Flaps	40° (FULL)
Airspeed	70 KIAS
Touch Down	MAIN WHEELS FIRST
Brakes	MINIMUM REQUIRED

SHORT FIELD LANDING

Flaps	40° (FULL)
•	65 KIAŚ
•	MAIN WHEELS FIRST
Flaps	UP
•	MAXIMUM
Control Wheel	FULL AFT

SOFT FIELD LANDING

Flaps	40° (FULL)
Airspeed	70 KIAS
Touch Down	NOSE HIGH WITH PWR
Brakes	NONE
Control Wheel	FULL AFT

AFTER LANDING

Flaps	UP
Mixture	LEAN HALFWAY
Elevator Trim	SET NEUTRAL
Electric Fuel Pump	OFF
Lights	AS REQUIRED
Radios CONTAC	CT GND / CALL CLR
Flight Plan	CLOSE IF REQ'D

SHUTDOWN / SECURE

AS REQUIRED
OFF
IDLE CUTOFF
to shut off
OFF / REMOVE KEY
OFF
LATCH BELT
TIE DOWN
COMPLETE
INSTALLED
CLEAN AS REQ'D
AS REQ'D

SPEEDS

V _R	60 KIAS
V _X	64 KIAS
V _Y	76 KIAS
V _{FE}	102 KIAS
V _A (2550 lb)	113 KIAS
V _S	55 KIAS
V _{SO}	49 KIAS
V _{NO}	125 KIAS
V _{NE}	154 KIAS
Pattern	. 105 MPH
Abeam Numbers	90 KIAS
Base	80 KIAS
Final	. 70 KIAS
V _G	76 KIAS
Glide distance1.6 NM	/ 1000 FT.

FREQUENCIES

Potomac (SFRA West) Potomoc	
KHEF (Manassas) ATIS Tower Ground	
KHWY (Warrenton) AWOSCTAF	120.35 122.70
KCJR (Culpeper) AWOSCTAF	119.32 123.07
CSN (Casanova VORTAC)	

CSN 116.30

Cranking		SIGNALS (
Throttle			STEADY GREEN
Throttle	Return to Land	FL	ASHING GREEN
EngineBEST PLACE TO LAN			STEADY RED
	Do not land		.FLASHING RED
# Engine Fails To Chart	General Warnin	g, Exercise C	aution
If Engine Fails To Start CHECKLIS	TAL7	ΓERNATING F	RED AND GREEN
ThrottleFULL OPEN Carb HeatO	<mark>/</mark>		
MixtureIDLE CUTOFF Electric Fuel PumpOI	NO PO	WER SETT	INGS
Cranking FULLEST TAN		to be	
Electric Fuel Pump OFF Mixture RIC	- · · · · · · · · · · · · · · · · · · ·	gs to be used a	•
Fuel Selector OFF Throttle FUL	Climb		FULL POWER
EngineMASTER AND IGNITION OFF MagsL/R/BOTI	Cruico	2	2300-2500 RPM
Fire Extinguisher			2100 RPM
Aircraft EVACIJATE	Precision Appro	oach	1800 RPM
Fire EXTINGUISH D DECLAR	Non-Precision	Approach	1500 RPM
Damage INSPECT MaydayON 121.			2200 RPM
Squawk			1500 RPM
ENGINE FAILURE PRIOR TO E PREPARE TO EXI		-	
	Vallanda biadaliada	nted items are i	mmediate action
TAKEOFF MixtureIDLE CUTOF	itama that aha		tted to memory.
Throttle IDLE Electric Fuel Pump OF		Jara 20 Commi	itou to momory.
Brakes APPLY Fuel SelectorOF	F		
Flaps RETRACT Mags OF	F PIVO	OTAL ALTI	TUDE
MixtureAS REQUIRE	<mark>)</mark>		Approximate
Ignition SwitchOFF Passenger BriefCOMPLET	Groundspeed		Pivotal
Radio Call OFF WHEN ABL	E		Altitude
Master SwitchOFF Door UNLATC		MPH	Aititude
	141645		
ENGINE FAILURE IMMEDIATELY CABIN FIRE	87	100	670
AFTER TAKEOFF Master Switch OF	91	105	735
Airspeed Flaps Up	0.0	110	810
Landing Site SELECT Fire Extinguisher ACTIVAT		115	885
Mixture		120	960
		125	1050
=			
Fuel SelectorOFF Ignition Switch OFF WING FIRE	113	130	1130
ig. income of the control of the con	<u> </u>		
Topo			
Nadio Cali			
Master Switch OFF Strobe Lights OF	F		
DoorUNLATCH Side slip to keep flames away from the fuel tank			
and land as soon as possible. Only use flaps as			
ENGINE FIRE IN FLIGHT required for final approach and touchdown			
MixtureIDLE CUTOFF			
Fuel Selector OFF AMMETER DISCHARGE			
Master Switch OFF Avionics Master OF			
Throttle CLOSED Alternator Switch			
Electric Fuel PumpCHECK & RESE	Τ		
Cabin Heat and AirOFF Master SwitchOFF			
AirspeedINCREASE UNTIL FIRE OUT Ammeter	<		
E LI II EVECUTE			
il animeter continues to discharge terminate			
ELECTRICAL FIRE IN FLIGHT flight as soon as possible.			
ELECTRICAL FIRE IN FLIGHT			
	■ N		
Master Switch OFF ELECTRICAL OVERLOAD			
Master Switch OFF ELECTRICAL OVERLOAD All Other Switches OFF Alternator Switch OFF			
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Battery Switch OFF Battery Switch OFF Battery Switch OFF	۲		
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Unneeded Elec Fuel Pump OFF			
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Fire Extinguisher ACTIVATE DFF ELECTRICAL OVERLOAD Alternator Switch OF Battery Switch OFF Unneeded Elec Fuel Pump OFF If alternator loads not reduced:			
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Fire Extinguisher ACTIVATE Cabin OFF Cabin OFF Alternator Switch OFF Battery Switch OFF Unneeded Elec Fuel Pump OFF If alternator loads not reduced: Alternator OFF Alternator Switch	F		
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Fire Extinguisher ACTIVATE Cabin VENTILATE Master Switch ON Battery Switch OF Rattery Switch AS PEOLIBE			
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OPEN Fire Extinguisher ACTIVATE Cabin VENTILATE Master Switch ON Circuit Breakers CHECK Master Switch AS SOON AS PRACTICAL Company)		
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Fire Extinguisher ACTIVATE Cabin VENTILATE Master Switch ON Circuit Breakers CHECK Avionics Master ON ELECTRICAL OVERLOAD Alternator Switch OF Battery Switch OF If alternator loads not reduced: Alternator OF Battery Switch OF Battery Switch AS REQUIRE Land AS SOON AS PRACTICA)		
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OFF Fire Extinguisher ACTIVATE Cabin VENTILATE Master Switch ON Circuit Breakers CHECK Avionics Master ON ELECTRICAL OVERLOAD Alternator Switch OF Battery Switch OF If alternator loads not reduced: Alternator OF Battery Switch OF Battery Switch AS REQUIRE Land AS SOON AS PRACTICA)		
Master Switch OFF All Other Switches OFF Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OPEN Vents/Cabin Air/Heat OPEN Cabin VENTILATE Master Switch ON Circuit Breakers CHECK Master Switch OFF ELECTRICAL OVERLOAD Alternator Switch OPEN Battery Switch OFF If alternator loads not reduced: Alternator Switch OFF Battery Switch AS REQUIRE Land AS SOON AS PRACTICAL)		



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PIPER ARCHER II (KNOTS) 658

PREFLIGHT CHECKLIST

Updated October 9th, 2022

COCKPIT S	AFETY CHECK
Magnetos	OFF, KEY OUT
Mixture	IDLE CUTOFF
Throttle	CLOSED

CARIN

CABI	
Keys	PLACE ON DASH
Documents	S.P.A.(R.)R.O.W.
Supplements	CHECK
Placards	CHECK
Airworthiness Cert	VISIBLE
Radio Station Lic	INT'L FLIGHT
Registration	VALID
P.O.H/A.F.M	CHECK
W&B Info	IN BINDER
Hobbs Meter	RECORD
Fire Extinguisher	GREEN/SECURE
Control Wheel Lock	UNLATCH BELT
Ignition Switch	
Mixture	IDLE CUTOFF
Throttle	CLOSED
Carburetor heat	COLD
Avionics Master Switch	OFF
Alternate Static Source	CHECK IN
Fuel Selector	FULLEST TANK
Elevator Trim	SET NEUTRAL
Master Switch	ON
Top G5	VERIFY ON
Fuel Quantity	
Pitot Heat	
Exterior Lights	CHECK AS REQ'D
Stall Warning	TEST
Master Switch	OFF
Flaps	FULL

RIGHT	WING
Step	INSPEC
Flaps	INSPEC
Rod	INSPEC
Right Aileron	
Hinges	BOLTS SECUR
	INSPEC
Static Wicks	INSPEC
Wing Tip/Nav Lights	INSPEC
Leading Edge	INSPEC
Wing Tie Down	REMOV
Fuel Vent	CHECK UNBLOCKED
Main Gear/Tire/Brakes	INSPEC
Cabin Vents and Inlets	INSPEC
Door Hinge Bolts	INSPEC

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LEFT	WING
Cabin Vents and Inlets	INSPECT
Leading Edge	INSPECT
Main Gear/Tire/Brakes	INSPECT
Fuel Vent	CHECK UNBLOCKED
Wing Tie Down	REMOVE
Pitot Blade	CHECK UNBLOCKED
Stall Tab	CHECK MOVEMENT
Wing Tip/Nav Lights	INSPECT
Right Aileron	INSPECT
Hinges	BOLTS SECURE
Weights	INSPECT
Static Wicks	INSPECT
Flaps	INSPECT
Rod	INSPECT

EMPENNAGE	
Skin and Rivets	INSPECT
Stabilator/Anti-Servo Tab	INSPECT
Hinge/Cables in Tail Cone	INSPECT
Vertical Stabilizer	INSPECT
Rudder	INSPECT
Hinges	SECURE
Tail Tie Down	REMOVE
Antennas	INSPECT
Underside	INSPECT
Baggage Door	LOCKED

FINAL	CHECK
Fuel Sumps	DRAIN
Left Wing (1)	DRAIN
Right Wing (1)	DRAIN
Nose (1)	PULL & DRAIN
Fuel Quantity	VISUAL CHECK
Fuel Caps	SECURE
Last 360° Walk Around	d COMPLETE
Chocks	. CONFIRM REMOVED
Tie Downs	. CONFIRM REMOVED
Cowl Plugs	. CONFIRM REMOVED
Pitot Cover	CONFIRM REMOVED
Preflight	COMPLETE

PERSONAL CHECKLIST

PERSONAL CHECKLIST		
PAVE to perceive hazards Pilot	. CHECK	
 Experience/recency 	CHECK	
Physical conditionSE	EE IMSAFE	
Aircraft	CHECK	
Fuel reserves	CHECK	
Performance		
Equipment	CHECK	
EnVironment		
Weather	CHECK	
External Pressures	CHECK	
IMSAFE to check pilot phys. cond	ition	
Injury	CHECK	
Medication	CHECK	
Stress	CHECK	
Alcohol	CHECK	

Fatigue CHECK
Emotion CHECK

DACCENCED DDIEE	TAXI	DUNWAY ENTRY
PASSENGER BRIEF		RUNWAY ENTRY Time for Lights, Camera, Action, Traffic
Fastened during taxi, takeoff, landing.	Taxi Area	Timer In Lights, Camera, Action, Trainc
Recommended always.	Check for dip in Attitude Indicator	LightsLANDING & ANTI-COL. ON
A – Air ventsUSAGE	ControlsPOSITION FOR WIND	TransponderVERIFY CODE/ALT
Sick? Loosen clothing, use air, look at point on	Flight Instruments CHECK IN TURNS	Mixture RICH
horizon. Location of sick sacks.	Flight institutions Check in Tokins	Electric Fuel PumpON
F – Fire extinguisherUSAGE	ENGINE RUNUP	Carb Heat COLD
P – Pull pin	AircraftPOSITION INTO WIND	TrafficVERIFY RWY/APCH CLEAR
A – Aim at base of fire	Parking BrakeSET	•
S – Squeeze	-	Runway Number CONFIRM Heading/Compass MATCHES RWY
S – Sweep	Cabin Door CLOSED AND LOCKED	neading/Compass MATCHES RW 1
E - ExitsLOCATION/USAGE	Flight ControlsFREE & CORRECT	NORMAL TAKEOFF
T - TrafficEXPLAIN	Flight InstrumentsCHECK	
Clock Position / Who's looking	Standby Flight Instruments CHECK	
Y - Yak (Sterile Cockpit)		Throttle FULL
No extraneous conversation under cruise or	Fuel Quantity	_
10,000' MSL (whichever is lower)	Fuel Selector FULLEST TANK	•
Y – Yoke	Elevator Trim SET NEUTRAL	·
3 way positive exchange of flight controls.	Mixture ENRICH	
Stay clear of active flight controls.	Throttle 2000 RPM	Climb 80 KIAS
Y – Any questions?	MagnetosR, B, L, B	CHORT FIELD TAKEOFF
DEFORE OTABLE	Drop less than 175 and 50 between mags	SHORT FIELD TAKEOFF
BEFORE START	Carb HeatCHECK RPM DROP	, , ,
PreflightCOMPLETE	Engine InstrumentsGREEN	Brakes HOLD
Passenger Briefing COMPLETE	Ammeter ZERO OR POSITIVE	Throttle FULL
Seats and BeltsADJUSTED/LOCKED	Annunciator PanelTEST	Engine Instruments "GREEN"
Fuel Selector ValveFULLEST TANK	Throttle CHECK IDLE	Engine RPM AT LEAST "2300 RPM"
Avionics Master Switch OFF	Throttle 900 RPM	BrakesRELEASE
Brakes TEST AND SET	MixtureLEAN HALFWAY	Airspeed"ALIVE"
Circuit Breakers CHECK IN	Throttle Friction Lock ADJUST	Rotate 50 KIAS "ROTATE"
Anticollision LightsON	Radios SET	Pitch 15°
Nav LightsON AT NIGHT/IFR	GPS Flight PlanVERIFY	Climb 65 KIAS
	2nd Radio121.5	ObstacleCLEARED
ENGINE START	XPDRVERIFY CODE/ALT	Flaps UP
Master SwitchON	CDI Softkey SELECT NAV SOURCE	Climb 80 KIAS
Electric Fuel PumpON	Wing FlapsSET	
Mixture RICH	Cabin WindowsCLOSED & LOCKED	SOFT FIELD TAKEOFF
Carb HeatCOLD	Parking BrakeRELEASE	Flaps25° (SECOND NOTCH)
Prime Engine for Cold Start or as reg'd		Brakes NONE
PrimerPRIME (5-8 STROKES)	TAKEOFF BRIEF	Control WheelFULL AFT
	Conditions	Throttle SLOWLY ADVANCE FULL
Primer IN & LOCKED	Weather (Wind, Ceilings, Etc.)	Engine Instruments "GREEN"
Throttle	Hazards	Engine RPM AT LEAST "2300 RPM"
Use halfway open for hot start	Weather, Terrain, Wildlife, Traffic, etc.	Airspeed"ALIVE"
Prop Area	Runway	Main GearLIFT OFF
Ignition Switch ENGAGE	Number (L/R), Length	PitchNOSE OVER
Do NOT Crank for > 10 secs. Allow 20 secs	Return/Emergency Procedures	Ground Effect MAINTAIN TO 75 KIAS
between start attempts! Throttle	Before Rotation	Flaps UP
Oil Pressure CHECK	 After Rotation w/ Sufficient Rwy 	Climb80 KIAS
Electric Fuel Pump OFF	• Below 1000' AGL	
Mixture LEAN HALFWAY	• Above 1000' AGL	
MIXIUIELEAN HALFWAY	Establish PIC in emergency	
AFTER START	Takeoff (Brief)	
	Normal, Short, Soft?	
Flaps UP Avionics Master Switch ON	• From Runway	
	Wind speed and direction	
GPS Database CHECK DATES	Speeds: rotate, initial/enroute climb	
RadiosTUNE, GET ATIS/AWOS	· · · · · · · · · · · · · · · · · · ·	
Altimeters	Departure (Brief)	
Top G5, Standby		
Heading Indicator BUG WIND		
Clearance OBTAIN		
TransponderSET/ALT		
G5 Alt Sel SET		
GPS Flight PlanSET		