

PA28-181 ARCHER II CHECKLIST (1)

INTERNAL		POWER CHECKS:	
Seats	Adjusted & Locked	Position	Into Wind, Check All Round
Hatch / Harnesses	Adjusted & Secure	Parking Brake	ON Set 1200 RPM
Parking Brake	Reset & ON	Fuel	CHANGE to Fuller Tank
Master Switch	OFF	T's & P's	Within Limits
Instruments	Legible, Serviceable, within limits	RPM	Set 2000 RPM, Brakes Holding
Flying Controls	Full & Free, Correct Sense	Carb. Heat	Set HOT, RPM Drop Apprx.75
Trimmers	Full & Free, Set for T/O		Set COLD, RPM Restored to 2000
Flaps	Check in Stages, Select UP	Magnetos	Check L/R, Max drop 175 RPM
Cabin Air Controls	Closed		Max Difference 50 RPM
Throttle Friction	Checked & Loose	Suction	3"-5"
Throttle	Full & free, Set 1cm Open	Ammeter	Charging
Mixture	Full & Free, Set RICH	T's & P's	Within Limits
Carb. Heat	Full & Free, Set COLD	RPM	IDLE, 500-700, Reset 1200 RPM
Master Switch	ON	PRE-DEPARTURE CHECKS	
Circuit Beakers	IN	Trimmers	Set for Take Off
Beacon (Strobe)	ON	Throttle Friction	Set, finger tight
Fuel	ON, Tank with LOWEST contents	Magnetos	ON, BOTH
Fuel pump	ON, check pressures in green, OFF	Pitot Heat	See below
Primer	Prime as Required, & LOCKED	Primer	Locked
Lookout	Look & "CLEAR PROP"	Fuel	Confirm endurance
Magnetos	Operate Starter	Fuel Pump	ON
AFTER START		Flaps	AS required & symmetrical
RPM	Set 1200, Brakes Holding	Instruments	Checked & SET, QNH, DI
Starter Warning Light	OUT, if NOT Shut Down	T's & P's	Within Limits
Oil Pressure	Green Arc within 30 seconds	Hatches	Door & Window Secure
Alternator / Ammeter	ON / Charging	Harness & Seat	Secure
Avionics Master Switch	ON	Carb. Heat	Check if required, Set COLD
Suction	Registering	Controls	Full & Free Movement
Magnetos	Check	LINING UP	
Flight Instruments	Check & Set as Required	Anti-Col. light	ON (leave on)
TAXIING		Transponder	On
Brakes	CHECK ASAP	Pitot heat	As required
Rudder	Nose Wheel Steering, Check	Landing light	ON
Flight Instruments	Check during Turns		X

PA28-181 EMERGENCY PROCEDURES (1)

ENGINE FIRE DURING START	ENGINE FAIL AFTER TAKE OFF		
Starter	CONTINUE CRANKING	<i>PITCH NOSE DOWN, BEST GLIDE SPEED (73 KTS)</i>	
Throttle	OPEN	<i>SELECT LANDING AREA AHEAD</i>	
Mixture	ICO	<i>USE FLAPS AS REQUIRED</i>	
Fuel Pump	OFF		x
Fuel	OFF	Fuel	OFF
<i>VACATE TO SAFE DISTANCE UPWIND & TAKE FIRE EXTINGUISHER</i>		Mixture	ICO
	x	Magnetos	OFF
	x	Radio Call	IF TIME ALLOWS
ENGINE FIRE IN FLIGHT		Master Switch	OFF
Mixture	ICO	Passengers	Brief
Fuel	OFF		HARNESSTIGHT
Fuel Pump	OFF		UNLATCH DOOR
Master Switch	OFF	DO NOT TURN BACK	
Magnetos	OFF	<i>Notes:</i>	
Throttle	CLOSE		
<i>IF FIRE NOT EXTINGUISHED ATTEMPT TO INCREASE AIRFLOW OVER ENGINE</i>			
Follow Power off landing			
	x		
ELECTRICAL FIRE IN FLIGHT			
Master Switch	OFF		
Vents	OPEN		
Cabin Heat	OFF		
LAND AS SOON AS PRACTICAL			
	x		

PA28-181 ARCHER II CHECKLIST (2)

FREDA / CRUISE & REJOIN CHECKS		SHUT DOWN CHECKS	
Fuel	ON, Sufficient for DIV, G/A etc.	Parking Brake	ON
Fuel Pump	OFF (above 1500')	Landing light	Off
Radios	On & Set (Inc. NAV)	RPM	1200, (Min 30 secs.)
Engine, CHECK:	Carb. Heat ON, T's & P's, Ammeter Suction, Carb. Heat, RPM restored	Magnetos	Check
DI	Sync. With Compass	Avionics Master switch	OFF
Altimeter	Check	Mixture	ICO
	x		
	x		
PRE-LANDING CHECKS			
Carb. Heat	ON, Check Drop in RPM	After engine stops:	
Brakes	OFF	Throttle	Closed
Mixture	RICH	Magnetos	OFF, REMOVE KEY
Fuel	ON Fuller Tank, Sufficient	Avionics Master	OFF
Fuel Pump	ON	Master switch	OFF
Flaps	As Required	Fuel	Leave ON
Instruments	T's & P's, Altimeter, DI	Harnesses	Leave Tidy
Carb. Heat	COLD, RPM restored	Tech Log & Oil	Complete
Harness / Hatches	Secure	Hatches	Closed
Landing Light	On	Aircraft	Secured & covered
	x		x
AFTER LANDING CHECKS		SPEEDS	
Vacate Runway	STOP	V _R	25° flap 49 Kts
Carb. Heat	COLD	V _R	No flap 53 Kts
Flaps	UP	V _X	No flap 25° flap 63 Kts
Throttle friction	Loose	V _{NE}	154 kTS
Fuel Pump	OFF	V _Y	79 Kts
Pitot Heat	OFF	V _{S1}	46 Kts
Lights	Non-Essential OFF	V _{S0}	54Ks
Radios	As Required	V glide	76 Kts
Transponder	Standby	V _{FE}	102 Kts
	x	V _{NO}	125 Kts
		Final APC	40° flap 66 Kts
		X-wind	17 Kts
			x

PA28-181 EMERGENCY PROCEDURES (2)

ENGINE FAIL AT ALTITUDE	RADIO FAIL	
IMMEDIATE ACTIONS:	Radio	
Attain & Maintain Best Glide speed-TRIM (Kts)	Check ON, Freq. Volume, Squelch	
Assess Surface Wind, Select Landing Area	Headset	
Plan Approach Pattern	Connections	
CHECK FOR CAUSE OF FAILURE	Electrics	
Carb. Heat	ON (HOT)	Ammeter, Master Switch
Fuel	CHANGE TANK (?)	CB's Reset ONCE Only
Fuel Pump	ON	Transponder
Mixture	Check RICH	Set 7600
Primer	LOCKED	x
Magnetos	Check L / R or BOTH	<i>Transmit BLIND, Follow Radio Fail Procedures</i>
Throttle	If Starts, Leave on ONE	x
	CHECK	
	x	
IF time permits, attempt re-start. If NOT:		
Follow power OFF Landing Procedure		
POWER OFF LANDING	ELECTRICAL FAILURE	
Fuel	OFF	Electrical Load
Mixture	ICO	Reduce Load, Lights
Magnetos	OFF	ONE Radio ONLY
Harnesses	TIGHT	Circuit Breakers
Doors	RELEASE	Check
Crew / Px	BRIEF	Ammeter
R / T & Transponder	MAYDAY / 7700	Check
Master Switch	OFF	Voltage WNG Light
		Check
		NO OUTPUT
		RESET MASTER SWITCH
		OFF for 2 secs & ON
		OUPUT RESTORED
		Restore ESSENTIAL services ONLY
		In event of repeated / continued electrical failure:
		Select only ESSENTIAL electrical services,
		Divert if applicable
		x
		Note: Radios makes a HEAVY drain on Battery.
		Turn all Radios not required-off individually