

PREFLIGHT CHECKLIST

	HECKLIST
FUEL/OIL	
1. FUEL TANKS	CHECK/SECURE
2. FUEL SUMPS	
3. ENGINE OIL	CHECK/SECURE/MIN. 4 QTS
CABIN	
1. PAPERWORK	ARROW
2. FIRE EXTINGUISHER	CHECK/SECURE
3. PITOT/STATIC SYSTEM	
4. ALTERNATE STATIC SOURCE	OFF/FWD
5. MAGNETOS AND ALL SWITCHES	OFF
6. STABILATOR/RUDDER TRIM	
7. TACH/HOBBS	CONFIRM/RECORD
8. BATTERY MASTER SWITCH	
9. EXTERIOR LIGHTING SWITCHES	
10. PITOT HEAT SWITCH	
11. FUEL GAUGES	
12. EXTERIOR LIGHTS	
13. PITOT HEAT	
14. STALL WARNING HORN	
15. EXTERIOR LIGHTING SWITCHES	
16. PITOT HEAT SWITCH	
17. BATTERY MASTER SWITCH	
18. FLAPS	EXTEND (40°)
RIGHT WING	
1. SURFACES/HINGES	CHECK
2. STATIC WICKS	CHECK
3. FUEL TANK VENT	CLEAR
4. MAIN GEAR STRUT	CHECK
5. MAIN WHEEL TIRE	CHECK PRESSURE/WEAR
6. BRAKE, PAD AND ROTOR	CHECK WEAR/LEAKS
7. TIE DOWNS/CHOCKS	REMOVE
NOSE	
1. WINDSHIELD	CLEAN
2. PROPELLER AND SPINNER	CHECK
3. AIR INLETS	CLEAR
4 NOCE CEAR CERT	CHECK
4. NOSE GEAR STRUT	
5. NOSE WHEEL TIRE	CHECK PRESSURE/WEAR
5. NOSE WHEEL TIRE	
5. NOSE WHEEL TIRE	REMOVE
NOSE WHEEL TIRE CHOCK LEFT WING (REPEAT RIGHT WING FROM ABOVE)	REMOVE
NOSE WHEEL TIRE CHOCK LEFT WING (REPEAT RIGHT WING FROM ABOVE) 1. STALL WARNING VANE	REMOVECHECKCLEAR
5. NOSE WHEEL TIRE	REMOVECHECKCLEAR
5. NOSE WHEEL TIRE 6. CHOCK LEFT WING (REPEAT RIGHT WING FROM ABOVE) 1. STALL WARNING VANE 2. PITOT/STATIC MAST	CHECKCLEARCHECK
5. NOSE WHEEL TIRE	
5. NOSE WHEEL TIRE	REMOVE
5. NOSE WHEEL TIRE	
5. NOSE WHEEL TIRE	REMOVE
5. NOSE WHEEL TIRE	REMOVE CHECK CLEAR CHECK CHECK REMOVE CHECK SECURE NG ENGINE LOCKED/FASTENED DESIRED TANK OFF ARM > 23.3 VOLTS
5. NOSE WHEEL TIRE	REMOVE CHECK CLEAR CHECK CHECK REMOVE CHECK SECURE NG ENGINE LOCKED/FASTENED DESIRED TANK OFF ARM > 23.3 VOLTS GAIN AFTER RUN UP*
5. NOSE WHEEL TIRE	REMOVE CHECK CLEAR CHECK CHECK REMOVE CHECK SECURE NG ENGINE LOCKED/FASTENED DESIRED TANK OFF ARM > 23.3 VOLTS GAIN AFTER RUN UP* CHECK
5. NOSE WHEEL TIRE	REMOVE CHECK CLEAR CHECK CHECK REMOVE CHECK SECURE NG ENGINE LOCKED/FASTENED DISPATCH IN FLIGHT CIRCLE S.A.F.E LOCKED/FASTENED DESIRED TANK OFF ARM > 23.3 VOLTS GAIN AFTER RUN UP* CHECK ON
5. NOSE WHEEL TIRE	REMOVE CHECK CLEAR CHECK CHECK REMOVE CHECK SECURE NG ENGINE LOCKED/FASTENED DISPATCH IN FLIGHT CIRCLE S.A.F.E. LOCKED/FASTENED DESIRED TANK OFF ARM > 23.3 VOLTS GAIN AFTER RUN UP* CHECK ON ON
5. NOSE WHEEL TIRE 6. CHOCK	
5. NOSE WHEEL TIRE	REMOVE

COLD START

1. THROTTLE	OPEN 1/4 INCH
2. FUEL PUMP	ON
3. MIXTURE	PRIME, THEN IDLE
4. FUEL PUMP	OFF
5. PROP	CLEAR
6. STARTER	ENGAGE (8 SECONDS MAX)
7. MIXTURE	ADVANCE/RELEASE STARTER
8. THROTTLE	AS REQUIRED

HOT START

1. THROTTLE	FULL, THEN 1/2 INCH OPEN
2. FUEL PUMP	ON
3. MIXTURE	IDLE/CUT-OFF
4. STARTER	ENGAGE (8 SECONDS MAX)
5. MIXTURE	ADVANCE/RELEASE STARTER
6. THROTTLE	AS REQUIRED

FLOODED START

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1. THROTTLE	OPEN FULL
2. FUEL PUMP	OFF
3. MIXTURE	IDLE/CUT-OFF
4. STARTER	ENGAGE (8 SECONDS MAX)
5. MIXTURE	ADVANCE/RELEASE STARTER
6. THROTTLE	RETARD AS ENGINE STARTS

AFTER START

1. OIL PRESS/TEMP/ANNUNCIATORS	CHECK
2. IDLE	1000 RPM
3. MIXTURE	LEAN FOR PEAK RPM
4. FUEL PUMP	OFF
5. AVIONICS MASTER	ON
6. EMERGENCY BATTERY	VERIFY ARM
7. LIGHTS	AS REQUIRED
8. TAXI TO RUN UP AREA	CHECK BRAKES

RUN UP CHECK

(GET ATIS / CLEARANCE / ENTER FLIGHT PLAN / SET C	COMS / XPDR / GPS MODE)
2. CIRCUIT BREAKERS	CHECK
3. ALTIMETERS	SET
4. FLIGHT INSTRUMENTS	CHECK
5. FLIGHT CONTROLS	FREE AND CORRECT
6. AUTOPILOT	CHECK
7. STABILATOR/RUDDER TRIM	SET
8. FUEL PUMP	ON
9. FUEL SELECTOR	SWITCH TANKS
10. MIXTURE	RICH
11. THROTTLE	2000 RPM
I. MIXTURELEAN FO	R 1350 EGT
II. L/R MAGNETO CHECK	< 175 / 50
III. ENGINE INSTRUMENTS	CHECK
IV. AMMETER/VOLTMETER	CHECK
V. ANNUNCIATORS	CHECK
12. THROTTLE	CHECK IDLE/1000 RPM
13. FUEL PUMP	OFF

IF E VOLTS BELOW 23.3 BEFORE ENGINE START

2 1 0 2 1 0 2 2 2 1 0 1 2 2 1 0 1 2 2 1 0 1 1 2 1 1 1 1	
1. EMERGENCY BATTERY	
2. AVIONICS MASTER SWITCH	OFF
3. ALTERNATOR SWITCH	OFF
4. BATTERY MASTER	
5. E VOLTS INDICATORVERI	FY > 23.3 VOLTS
6. BATTERY MASTER	ON
7. ALTERNATOR SWITCH	ON
8. AVIONICS MASTER SWITCH	ON

14. L/R MAGNETO SWITCHES.....ON

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PIPER ARCHER - NORMAL CHECKLIST

G1000



TAXI			
1. TAXI PLAN	BRIEF		
2. AREA	CLEAR		
3. FIRST PROTECTED TURN	CHECK INSTRUMENTS		
BEFORE TAK	<u>EOFF</u>		
1. PRE-TAKEOFF BRIEF	COMPLETE		
2. DOORS/WINDOWS	SECURE		
3. LIGHTS/STROBE/XPDR			
4. AIR CONDITIONER			
5. FUEL PUMP			
6. MIXTURE	SET AS REQUIRED		
NORMAL TAK	<u>(EOFF</u>		
1. FLAPS	0°		
2. THROTTLE	FULL		
3. ENGINE INSTRUMENTS	CHECK		
4. ROTATE	60 KIAS		
5. CLIMB			
SHORT FIELD TA			
2. BRAKES			
3. THROTTLE	FULL		
4. ENGINE INSTRUMENTS	CHECK		
5. BRAKES	RELEASE		
6. ROTATE	55 KIAS		
7. CLIMB	64 KIAS		
8. CLEAR OF OBSTACLES	76 KIAS		
9. FLAPS			
SOFT FIELD TA			
1. FLAPS	250		
2. BACK PRESSURE			
3. THROTTLE			
4. ENGINE INSTRUMENTS			
5. LIFT OFF			
6. ACCELERATE IN GROUND EFFECT			
7. CLIMB			
8. CLEAR OF OBSTACLES	76 KIAS		
9. FLAPS	RETRACT SLOWLY TO 0°		
AFTER TAKEOFF / CLIMB			
1. AIRSPEED	90 KIAS		
2. FLAPS	0°		
3. LANDING LIGHT			
4. MIXTURE			
5. FUEL PUMP			
<u>CRUISE</u>			
1. POWER			
2. MIXTURE	LEAN AS REQUIRED		
3. FUEL SELECTOR	ALTERNATE PER SCHEDULE		

CRUISE PERFORMANCE - 65% POWER (ISA) / 9.5 GPH

		(- ,
PRESS ALT (FT.)	RPM	TAS
SEA LEVEL	2405	113 KTAS
2,000	2425	114 KTAS
4,000	2450	115 KTAS
6,000	2470	116 KTAS
8,000	2495	117 KTAS
9,000	2505	118 KTAS
10,000	2515	119 KTAS

APPROACH		
1. SEATS/SEAT BELTS	SET/FASTENED	
2. LIGHTS	SET AS REQUIRED	
3. FUEL PUMP	ON	
4. FUEL SELECTOR	FULLEST TANK	
5. MIXTURE	SET AS REQUIRED	
6. AIR CONDITIONER	OFF	
LANDIN	<u>IG</u>	
1. APPROACH	90 KIAS	
2. MIXTURE	SET AS REQUIRED	
3. FLAPS	SET (102 KIAS MAX)	
4. AIRSPEED	66 - 75 KIAS	
AFTER LAN	<u>IDING</u>	
1. FLAPS	RETRACT	
2. BRAKES	AS REQUIRED	
3. FUEL PUMP	OFF	
4. LIGHTS	AS REQUIRED	
5. THROTTLE	1000 RPM	
6. MIXTURE	LEAN FOR GROUND OPS	
SECURING		
1. SQUAWK	1200	
2. LIGHTS/DIM SWITCHES	OFF	
3. AVIONICS MASTER	OFF	
4. EMERGENCY BATTERY	OFF	
5. AIR CONDITIONER		
6. ELECTRICAL SWITCHES	OFF	
7. THROTTLE	IDLE	
8. MIXTURE		
9. L/R MAGNETO SWITCHES		
10. TACH/HOBBS		
11. ALTERNATOR SWITCH		
12. BATTERY MASTER		
13. STANDBY INSTRUMENTS	VERIFY SHUTDOWN	

V-SPEEDS @ MAX GROSS WEIGHT

	Vso	45 KIAS
	Vs	50 KIAS
	Vr	60 KIAS
	Vx	64 KIAS
	Vy	76 KIAS
	Vg	76 KIAS
	Vfe	102 KIAS
	Vno	125 KIAS
	Vne	154 KIAS
١	/o (2550 lbs.)	113 KIAS
١	/o (1917 lbs.)	98 KIAS
	MAX DEMONSTRATED	CROSSWIND - 17 KTS