After Takeoff Out of 1,000' AGL

Climb at 90 KIAS After Passing Through 500' AGL

CRUISE CLIMB	90 KIAS
THROTTLE	FULL
FLAPS UP	CHECK

Cruise

THROTTLE	SET
2300	RPM for local; 75% for XC.
ENGINE INSTRUMENT	rsCHECk
FUEL SELECTOR	PROPER TANK
FUEL PUMP	OFF / CHECK PRESSURE
LANDING LIGHT	ON (for local training) / OFF (for XC cruise)
MIYTLIDE	I FAN AS REC

In-Range / Descent For Cross-Country

ATIS/AWOS	CHECK
APPROACH BRIEFING	COMPLETE
ALTIMETER	SET
AIRPORT DIAGRAM (keep available)	CHECK
CARB HEAT	AS REQ
SEAT BELTS	FASTENED
MIXTURE	SLIGHTLY ENRICH

Approach *Approx. 15 NM from Airport*

ATIS/AWOS	
APPROACH BRIEFING	COMPLETE
ALTIMETER	SET
AIRPORT DIAGRAM (keep available)	CHECK
FUEL PUMP	ON
FUEL SELECTOR	PROPER TANK
MIXTURE	SLIGHTLY ENRICH
PARKING BRAKE	OFF
LANDING LIGHT	ON

WHEN DIRECT TO IAF OR VECTORED

FLIGHT & NAV INST	RUMENTS	SET / IDENT
GPS CDI	(as req. for ap	proach) VLOC OR GPS
AIRSPEED		

Before Landing Checklist

Never Switch Fuel Tanks Below Pattern Altitude

POWER	AS REQUIRED
FLAPS	(V _{rr} 102 KIAS) 25°
MIXTURE	
FUEL PUMP	ON

Go Around / Missed Approach

THROTTLE	FULL FWD
PITCH	UP FOR CLIMB (76 KIAS)
FLAPS	UP (0°)
FLY ASSIGNED OR PUR	LISHED HEADING & ALTITUDE

After Landing Stopped

FLAPS	UP
TRIM	CENTER
CARB HEAT	OFF
MIXTURE	LEAN FOR RPM RISE
STROBE LIGHT	ON/DOWN
LANDING LIGHT	AS REQ
FUEL PUMP	OFF
TAXI CLEARANCE	OBTAIN / BRIEF

Shutdown Terminate

TRANSPONDER	1200
AVIONICS MASTER	OFF
FRESH AIR FAN	OFF
THROTTLE1	000 RPM
MIXTURE	CUTOFF
MAGNETOS	OFF
LIGHT SWITCHES	OFF
BATTERY MASTER	OFF
CE will begin to count down DO NOT proce	

G5 will begin to count down. DO NOT press any button on the instrument.

WINDOW	CLOSE
BLOCK-IN & MX REPORT	SUBMITTED & CONF. REC'D
FLIGHT CONTROLS	SECURE
SUNSCREENS	INSTALL
G5 (IF EQUIPPED)	COUNTING DOWN
TIEDOWN / CHOCK	SECURE
WALKAROUND	COMPLETE



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Preflight Ins	pection
BLOCK-OUTSI	UBMITTED & CONF. REC'D
WEATHER	CHECK
EQUIPMENT REQUIRED	
WEIGHT & BALANCE	CHECK
FUEL QTY(full,	
OIL QTY	(6-8 qts., 6 qts. min.) CHECK
PERFORMANCE FIGURES	
INTERIO Do Not Step on Flaps o	R or Lean on Door
FIRE EXTINGUISHER	
AIRCRAFT DOCUMENTS	
POH/AFM	
FUEL SELECTOR	PROPER TANK
TRIM	ELEV & RUDDER SET
FLAPS	FULL DOWN (40°)
CARB HEAT	
MIXTURE	
THROTTLE	CLOSED
MAGNETOS & ALL SWITCHES	
PITOT/STATIC	DRAIN / CHECK
BATTERY MASTER	
LIGHTS FUEL GAUGES	
ANNUNCIATOR PANEL	
PITOT HEAT (if IFR)	
STALL WARNING HORN	TEST
BATTERY MASTER	OFF
FLIGHT CONTROLS	
POSITION AILERON FULL LEFT [
Provides for visual inspection withou	ut manually moving aileron.
EXTERIO	R
TOW BAR	STOWED & SECURE
BAGGAGE DOOR	SECURE
RIGHT WING CONDITION (rear, tip	
Do not touch aileron. Control po	
inspection without manua	
FUEL QTY	INSPECT VISUALLY
FUEL TANK VENT	CLEAR
FUEL TANK SUMP	
Check for water, sedime	nt, proper color.
WING TIE DOWN	REMOVE
Continued	l

Piper Archer Normal

Preflight Inspection (Con	tinued)
MAIN GEAR STRUT (approx. 4.5") & TIRE	
BRAKE BLOCK & DISC	
FRESH AIR INLET	
NOSE COWLING CONDITION	
PROPELLER & SPINNER	
AIR INLETS	
NOSE GEAR STRUT (approx. 3.25") & TIRE	
OIL QTY (6 qts. min.) DIPSTICK & OIL FILLER CAP	CHECK
FUEL STRAINERLEFT WING CONDITION (rear, tip, & front)	DRAIN
Do not touch aileron. Control position allows inspection without manually moving ail	for visual eron.
PITOT/STATIC MAST	CHECK
FRESH AIR INLET	
FUEL TANK SUMP	
Check for water, sediment, proper colo	or.
FUEL TANK VENT	CLEAR
FUEL QTYINS	PECT VISUALLY
MAIN GEAR STRUT (approx. 4.5") & TIRE	CHECK
BRAKE BLOCK & DISC	CHECK
WING TIE DOWN	
ANTENNAS	
EMPENNAGE	
STABILATOR & TRIM TAB	
AFT TIE DOWN	DEMOVE
GENERAL WALKAROUND	CHECK
	CHECK
GENERAL WALKAROUND	RETRACT (0°)
GENERAL WALKAROUNDFLAPSBefore Starting Engi	CHECKRETRACT (0°)
GENERAL WALKAROUNDFLAPSBefore Starting Engi PREFLIGHT INSPECTION	ne COMPLETE
Before Starting Engil PREFLIGHT INSPECTION WT&BAL, DOCS, PERFORMANCE	ne COMPLETE
Before Starting Engile PREFLIGHT INSPECTION	ne COMPLETE
Before Starting Engil PREFLIGHT INSPECTION WT&BAL, DOCS, PERFORMANCEAI PASSENGER BRIEF	ne COMPLETE
Before Starting Engil PREFLIGHT INSPECTION	ne CHECK COMPLETE CHECK CHECK CHECK CHECK CHECK COMPLETE
Before Starting Engil PREFLIGHT INSPECTION	ne CHECK RETRACT (0°) ne COMPLETE CHECK IRPLANE MODE COMPLETE its, ority ED / FASTENED
Before Starting Engil PREFLIGHT INSPECTION	ne CHECK
Before Starting Engil PREFLIGHT INSPECTION	ne CHECK
Before Starting Engil PREFLIGHT INSPECTION	CHECK
Before Starting Engil PREFLIGHT INSPECTION	CHECK
Before Starting Engil PREFLIGHT INSPECTION. WT&BAL, DOCS, PERFORMANCE. CELL PHONE	CHECKRETRACT (0°) NECOMPLETECHECK IRPLANE MODECOMPLETE its, ority ED / FASTENEDOFFOFFOFFOFFOFFOFF
Before Starting Engil PREFLIGHT INSPECTION	CHECK
Before Starting Engil PREFLIGHT INSPECTION. WT&BAL, DOCS, PERFORMANCE. CELL PHONE	CHECKRETRACT (0°) THECOMPLETECHECK IRPLANE MODECOMPLETE ilts, ority ED / FASTENEDOFFOFFOFFOFFOFF RICH/FULL FWD
Before Starting Engil PREFLIGHT INSPECTION	CHECKRETRACT (0°) TECOMPLETECHECK IRPLANE MODECOMPLETE lts, ority ED / FASTENEDOFFOFFOFFOFFOFF RICH/FULL FWDCLOSED
Before Starting Engil PREFLIGHT INSPECTION. WT&BAL, DOCS, PERFORMANCE. CELL PHONE	CHECKRETRACT (0°) THECOMPLETECHECK IRPLANE MODECOMPLETE lts, ority SED / FASTENEDOFFOFFOFFOFF RICH/FULL FWDCLOSEDON
Before Starting Engil PREFLIGHT INSPECTION	CHECKRETRACT (0°) THECOMPLETECHECK IRPLANE MODECOMPLETE lts, ority ED / FASTENEDOFFOFFOFFOFF RICH/FULL FWDCLOSEDON
Before Starting Engil PREFLIGHT INSPECTION. WT&BAL, DOCS, PERFORMANCE. CELL PHONE	CHECKRETRACT (0°) THECOMPLETECHECK IRPLANE MODECOMPLETE lts, ority ED / FASTENEDOFFOFFOFFOFFOFF RICH/FULL FWDCLOSEDON
Before Starting Engil PREFLIGHT INSPECTION	CHECKRETRACT (0°) neCOMPLETECHECK IRPLANE MODECOMPLETE lts, ority ED / FASTENEDOFFOFFOFFOFF RICH/FULL FWDCLOSEDONON/UPAS REQ
Before Starting Engil PREFLIGHT INSPECTION	CHECKRETRACT (0°) neCOMPLETECHECK IRPLANE MODECOMPLETE lts, ority ED / FASTENEDOFFOFFOFFOFF RICH/FULL FWDCLOSEDONON/UPAS REQ
Before Starting Engil PREFLIGHT INSPECTION. WT&BAL, DOCS, PERFORMANCE. CELL PHONE	CHECKRETRACT (0°) TeCOMPLETECHECK IRPLANE MODECOMPLETE Its, ority ED / FASTENEDOFFOFFOFFOFF RICH/FULL FWDCLOSEDONONON/UPAS REQ HECK PRESSURE

Engine S	Start
COLD ENGINE	PRIME 3-4 SROKES
THROTTLE	
THROTTLE	
BRAKES	
PROP AREA	CLEAR
START	(8 seconds max) ENGAGE
WHEN ENGINE	STARTS
THROTTLE	
OIL PRESSURE	
FUEL SELECTOR	
Confirm both ta	nks work.
FUEL PUMP	
FUEL PRESSURE	CHECK
MIXTURE	
THROTTLE	1000 RPM
After S	tart
AVIONICS MASTER	ON
FRESH AIR FAN/HEATER/DEFRO	OSTAS REQ
HEADSETS	ON
ANNUNCIATOR PANEL	
ALTERNATOR OUTPUT	CHECK
GPS DATABASE	
COMS	SET / ATIS
ALTIMETERS	SFT
CLEARANCE (If IFR)	
GPSEN	ITER WPT/FPI /APR AS REO
GPS (as re	
NAVS\a310	SET / COLIRSE SET
FLIGHT INSTRUMENTS (TC/AI/HSI	/VSI) CHECK
TRANSPONDER	
110 (13) 31 (3) (3)	SET CODE, MEI MODE
_	•
Taxi	
Do Not Ride	
AIRPORT DIAGRAM	
TAXI CLEARANCE	
TAXI AREA	
BRAKES	
FLIGHT INSTRUMENTS (TC/AI/HSI, Check in tu	
STERILE COCKPIT NO NON-E	SSENTIAL CONVERSATION

Run Up

Do Not Use Parking Brake	
BRAKES	HOLD
FUEL PUMP	
FUEL GAUGES / QTY	
FUEL SELECTORVERIFY PI	ROPER TANK
MIXTURE	FULL FWD
THROTTLE	2000 RPM
MAGNETOS (175 max drop, max diff. 50	RPM) CHECK
CARB HEAT (approx 75 RPM	1 dron) CHECK
ENGINE INSTRUMENTS	CHECK
AMMETER	CHECK
FUEL PUMP	
FUEL PRESSURE	
ANNUNCIATOR PANEL	
THROTTLE	
MIXTURELEAN FO	OR RPM RISE
G5 (IF EQUIPPED)FU	
FLIGHT CONTROLS	CHECK
IN THE EVENT OF AN ENGINE FAILURE OR ABNORMALITY PRIOR	TO ROTATION
THROTTLEIMN	
BRAKE	AS REQ
STOP STRAIGHT AHEAD	
IF NOT ENOUGH RUNWAY REMAINS TO STOP	IDLE CUTOFF
FUEL SELECTOR	
FUEL SELECTOR	
BATTERY MASTERAVOID OBSTACLES	
ENGINE FAILURE AFTER ROTATION WITH SUFFICIENT	Г
RUNWAY REMAINING FOR A COMPLETE STOP	
THROTTLEIMN	NEDIATELY CLOSED
LAND STRAIGHT AHEAD	

RUNWAY REMAINING FOR A COMPLETE STOP

THROTTLE

LAND STRAIGHT AHEAD

BRAKE

ENGINE FAILURE AFTER ROTATION WITH NO RUNWAY REMAINING

AIRSPEED.
PITCH FOR BEST GLIDE (76 LSF)

MIXTURE

MAGNETOS.

MAGNETOS.

BATTERY MASTER

OFF

LAND AT LOWEST POSSIBLE AIRSPEED, STRAIGHT AHEAD, & AVOID OBSTACLES

Before Takeoff	
PRE-TAKEOFF BRIEF	.COMPLETE
ELIGHT INSTRUMENTSON FUND ON THE PUMP	ON E, TWO, SETAS REQOFFSET
DEPARTURE BRIEF Initial Altitude & Heading Bugs Brief Departure Procedure	R ALTITUDE) CHECK
DOOR & WINDOW	SECURE
ANDING LIGHT TROBE LIGHT TRANSPONDER	ON ON/UP ALT
iner Archer Normal	4

Piper Archer Normal

Electrical Failures

ALT Annunciator Illuminated
AMMETERCHECK TO VERIFY INOP ALTERNATOR IF AMMETER READS ZERO
ALTERNATOROFF ELECTRICAL LOADSREDUCE TO MINIMUM ALT CIRCUIT BREAKER CHECK / RESET IF NECESSARY
ALTERNATORON IF POWER NOT RESTORED ALTERNATOROFF
Anticipate electrical failure.
DECLARE EMERGENCY, EXIT IMC, LAND AS SOON AS POSSIBLE
Electrical Overload
Alternator 20 AMPs Above Known Electrical Load
ALTERNATORON BATTERY MASTEROFF
IF ALTERNATOR LOADS ARE REDUCED
ELECTRICAL LOADREDUCE TO MINIMUM
LAND AS SOON AS PRACTICAL IF ALTERNATOR LOADS ARE NOT REDUCED
ALTERNATOROFF
BATTERY MASTER AS REQ
Anticipate electrical failure. DECLARE EMERGENCY, EXIT IMC, LAND AS SOON AS POSSIBLE
Electrical Failure
STANDBY INSTRUMENTSUSE DECLARE EMERGENCY, EXIT IMC, LAND AS SOON AS POSSIBLE
AHRS Failure
G5USE PFD HSIVERIFY AGAINST MAG COMPASS APPROACHACCOMPLISH Visual, ILS, GPS, LOC, VOR approaches available.
PFD Failure
STANDBY INSTRUMENTS
ADC Failure
STANDBY AIRSPEED INDICATORUSE STANDBY ALTIMETERUSE APPROACHACCOMPLISH Visual, ILS, GPS, LOC, VOR approaches available.

Pattern Work

Touch & Go's Prohibited Except With Instructor

Before Landing Checklist

Go Around / Missed Approach

FUEL PUMP.

MAINTAIN CENTERLINE

Touch & Go

	FLAPS	UP
	CARB HEAT	OFF
	THROTTLE	FULL
	Standardized Speeds	
		DOWNWIND, FLAPS 0°
	70-80 KIAS	
	70 KIAS	TURNING BASE, FLAPS 25°
		SHORT FINAL UNTIL
	66 KIAS	10-20' ABOVE RUNWAY
WHEN LANDING ASSURED		
	SOFT FIELD	66 KIAS - FLAPS 40°
	SHORT FIELD	66 KIAS - FLAPS 40°

After Landing (Stopped)

F	LAPS	UP
П	FRIM	CENTER
(CARB HEAT	OFF
1	MIXTURE	LEAN FOR RPM RISE
9	STROBE LIGHT	ON/DOWN
l	ANDING LIGHT	AS REQ
F	UEL PUMP	OFF
П	TAXI CLEARANCE	OBTAIN / BRIEF

Before Takeoff

PRE-TAKEOFF BRIEF		
FLIGHT INSTRUMENTS	PRE-TAKEOFF BRIEF	COMPLETE
FUEL PUMP	FLIGHT CONTROLS	CHECK
TRIM	FLIGHT INSTRUMENTS	CHECK
FLAPS	FUEL PUMP	ON
CARB HEAT OFF GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) SET GPS (De to WPT/PROC for APR/FPL to activate) VEC GPS GPS (De to to well a sequence of the company of th	TRIM	ONE, TWO, SET
GPS (to WPT/PROC for APR/FPL to activate)	FLAPS	AS REQ
GPS (as req. for departure) VLOC OR GPS HSI / COURSE		
HSI / COURSE	GPS (to WPT/PROC for APR/FPL to activate)	SET
DEPARTURE BRIEF Initial Altitude & Heading Bugs Brief Departure Procedure	GPS CDI(a	as req. for departure) VLOC OR GPS
Initial Altitude & Heading Bugs Brief Departure Procedure	HSI / COURSE	SET
Brief Departure Procedure	DEPARTURE BRIEF	
MIXTURE	Initial Altitude & Heading Bugs	
ENGINE INSTRUMENTS	Brief Departure Procedure	COMPLETE
SEAT BELTS & SHOULDER HARNESS		
FINAL ITEMS WHEN #1 FOR TAKEOFF DOOR & WINDOW SECURE LANDING LIGHT ON/UP	ENGINE INSTRUMENTS	CHECK
DOOR & WINDOW SECURE LANDING LIGHT ON/UP STROBE LIGHTON	SEAT BELTS & SHOULDER HARNESS	FASTENED
LANDING LIGHTON STROBE LIGHTON/UP	FINAL ITEMS WHEN #1 FO	R TAKEOFF
STROBE LIGHTON/UP	DOOR & WINDOW	SECURE
	LANDING LIGHT	ON
TRANSPONDERALT		
	TRANSPONDER	ALT



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Engine Failure During Takeoff Roll

THROTTLEIDI	LE
BRAKESAPPI	LY
MIXTUREIDLE CUTOF	FF
MAGNETOSOF	FF
BATTERY MASTEROF	FF

Engine Failure After Takeoff

MAINTAIN AIRCRAFT CONTROL
AIRSPEED BEST GLIDE76 KIAS
INSUFFICIENT ALTITUDE
PERFORM POWER-OFF LANDING

IF TIME & ALTITUDE ALLOWS

FUEL SELECTOR	CHECK SELECTED TANK
FUEL PUMP	CHECK ON
MIXTURE	CHECK RICH
CARB HEAT	ON

If power is not restored, prepare for Power-Off Landing.

Power-Off Landing *Emergency Landing Without Power*

AIRSPEED BEST GLIDE	76 KIAS
LANDING AREA	SELECT / INSPECT

WHEN COMMITTED TO LANDING

FLAPS	
THROTTLE	
MIXTURE	
MAGNETOS	
BATTERY MASTER	OFF
ALTERNATOR	OFF
FUEL SELECTOR	OFF
SEAT BELTS & SHOULDER HARNESS	TIGHTENED
TOUCH DOWNLOWEST F	POSSIBLE AIRSPEED

Spin Recovery		
RUDDERFULL OPPOS	ITE OF SPIN	
ELEVATOR	FULL FWD	
While Simultaneously		
AILERONS		
THROTTLE	IDLE	
WHEN ROTATION STOPS		
RUDDER	NEUTRAL	
ELEVATORAS REQ TO SMOOTH	HLY REGAIN	
LEVEL FLIGHT AT	ITITUDE	
Loss of Fuel Pressure		

EUSS UIT U	iei r ressure
FUEL PUMP	C
FLIFL SELECTOR	CHECK ON FULL TAN

Loss of Oil Pressure

LAND......AS SOON AS POSSIBLE PREPARE FOR POWER OFF-LANDING PROCEDURE

High Oil Temperature

LAND......AS SOON AS POSSIBLE PREPARE FOR POWER OFF-LANDING PROCEDURE

Open	Door
AIRSPEED	SLOW TO 87 KIAS
CABIN VENTS	CLOSE
STORM WINDOW	OPEN
LOWER LATCH OPEN	PULL ON ARMREST / LATCH
LIDDER LATCH ODEN	LATCH

Cleaning Fouled Spark Plugs

Note:

While performing the above checklist, do not allow oil temperature to reach redline and be vigilant of oil pressure.

Carburetor Icing

CARB HEAT		ON FULL
MIXTURE	ADJUST FOR MAXIMUM SM	OOTHNESS

Engine Running Roughly

MAINTAIN AIRCRAFT CONTROL	
CARB HEATO	1(

IF ROUGHNESS CONTINUES AFTER 1 MINUTE

CARB HEAT	OFF
MIXTUREAD	DJUST FOR MAXIMUM SMOOTHNESS
FUEL PUMP	ON
FUEL SELECTOR	SWITCH TANKS / CHECK PRESSURE
ENGINE INSTRUMEN	ITSCHECK
MAGNETOS	CHECK LEFT / CHECK RIGHT
If operation is satisfa	actory on either magneto, continue on that

If operation is satisfactory on either magneto, continue on that magneto at reduced power and full RICH mixture to first airport.

PREPARE FOR POWER-OFF LANDING PROCEDURE

Engine Power Loss In-Flight

IF AT LOW ALTITUDE (BELOW 3000' AGL)

AIRSPEED...... MAINTAIN 76 KIAS MINIMUM

IF ALTITUDE PERMITS (ABOVE 3000' AGL)

FUEL SELECTOR	SWITCH TO TANK CONTAINING FUEL
FUEL PUMP	ON
MIXTURE	RICH
CARB HEAT	ON
ENGINE INSTRUM	ENTS
CHECK EOB II	ADICATION OF CALISE OF POWER LOSS

.......CHECK FOR INDICATION OF CAUSE OF POWER LOSS

If no fuel pressure is indicated, check fuel selector position to be sure it is on a tank containing fuel. If power is not restored prepare for a Power-Off Landing.

Power-Off Landing

AIRSPEED BEST GLIDE	76 KIAS
LANDING AREA	SELECT / INSPECT

WHEN COMMITTED TO LANDING

WHEN COMMITTED TO LANDING		
FLAPSAS DESIRED		
THROTTLECLOSE		
MIXTUREIDLE CUTOFF		
MAGNETOSOFF		
BATTERY MASTEROFF		
ALTERNATOROFF		
FUEL SELECTOROFF		
SEAT BELTS & SHOULDER HARNESSTIGHTENED		
TOUCH DOWNLOWEST POSSIBLE AIRSPEED		

Fires

Engine Fire During Start

STARTER	CRANK ENGINE
MIXTURE	
THROTTLE	OPEN
FUEL PUMP	OFF
FUEL SELECTOR	OFF
ABANDON IF FIRE CONTINUES	

Electrical Fire In-Flight (Smoke in Cabin)

BATTERY MASTER	OFF
ALTERNATOR	OFF
/ENTS	OPEN
CABIN HEAT	OFF
STORM WINDOW	OPEN IF REQ
AND AS SOON AS POSSIBLE	

Engine Fire In-Flight

FUEL SELECTOR	OF
THROTTLE	
MIXTURE	IDLE CUTOF
FUEL PUMP	OF
HEATER & DEFROSTER	OF
AIRSPEED BEST GLIDE	76 KIA
PREPARE FOR POWER-OFF LANI	DING PROCEDURE