



LFK

Archer II

### IFR-Checklist PA-28-181, SE-KIT, SE-IUD

#### BEFORE STARTING ENGINE

- Brakes ..... set
- Preflight check ..... completed
- Technical status/documents ..... verified
- Compass deviation card ..... check
- Tacho time ..... note
- Seat ..... adjust
- Fuses ..... check
- Electrical equipment ..... OFF
- Fuel caps ..... secured

#### STARTING ENGINE

- Master switch ..... ON
- Fuel gauges ..... check
- Fuel selector ..... desired tank
- Carburetor heat ..... OFF
- Mixture ..... full RICH
- Throttle ..... 1 cm OPEN
- Electric fuel pump ..... ON
- Fuel pressure ..... verified
- Primer ..... LOCKED
- Prop area ..... clear
- Starter ..... engage
- Throttle for warm up ..... 1000 RPM
- Oil pressure ..... check
- Alternator/Load ..... ON/check
- Fuel pump ..... OFF

#### TAXIING

- Belts/harness ..... fasten
- Electrical equipment/radios ..... ON
- Transponder ..... standby
- Altimeter ..... set
- Navigation aids ..... check
- Auto pilot ..... check
- Taxi area ..... clear
- Brakes ..... check
- Flight instruments ..... check in turn

#### GROUND CHECK

- Throttle ..... 2000 RPM
- Magnetos ..... check
- Carburetor heat ..... check
- Engine gauges ..... check
- Vacuum ..... 4.8" - 5.1" Hg
- AUX vacuum (KIT) ..... check
- Alternate static port ..... check
- Throttle ..... idle check
- Throttle ..... 1000 RPM
- Annunciator panel ..... press-to-test
- Mixture ..... RICH
- Fuel selector ..... desired tank
- Trim tabs ..... set
- Flaps ..... check - set
- Controls ..... free
- Directional gyro ..... set
- Door/window ..... latch
- Flight/engine instruments ..... check
- Nav aids/departure briefing ..... set/give
- Emergency procedures ..... review

#### ON RUNWAY

- Gyro/Compass ..... check RWY HDG
- Transponder ..... ON
- Electric fuel pump ..... ON
- Pitot heat ..... as required
- Lights ..... as required
- Takeoff time ..... note

#### NORMAL TAKEOFF AND CLIMB

- Accelerate to ..... 52 - 65 KIAS
- Control wheel ..... rotate
- Climb speed best angle (Vx) ..... 64 KIAS
- Climb speed best rate (Vy) ..... 76 KIAS
- Cruise climb ..... 85 KIAS
- Flaps ..... retract slowly
- Electric fuel pump ..... OFF
- Altimeter 1013 ..... if applicable

#### CRUISING

- Max power ..... 75%
- Mixture ..... lean
- Carburetor heat / Icing ..... check
- Fuel selector ..... change every hour

#### BEFORE DESCENT

- Directional gyro ..... set
- Vacuum ..... 4.8" - 5.1" Hg
- Fuel quantity ..... check
- Nav aids ..... set & identify

#### APPROACH BRIEFING

- Airport & approach ..... type & RWY
- MSA ..... check
- IAF & Entry ..... decide
- Initial altitude ..... decide
- Inbound track ..... set
- OM/MM altitude ..... check
- Minima/DP ..... check
- GA/Missed APCH ..... check

#### APPROACH AND LANDING

- Altimeter ..... set
- Carburetor heat ..... ON if required
- Mixture ..... full RICH
- Electric fuel pump ..... ON
- Landing light ..... ON
- Fuel selector ..... proper tank
- Flap set ..... airspeed < 102 KIAS
- Trim to ..... 70 KIAS
- Carburetor heat ..... OFF on short final

#### AFTER LANDING

- Flaps ..... retract
- Electric fuel pump ..... OFF
- Strobe lights ..... OFF
- Transponder ..... OFF
- Landing time ..... note

#### STOPPING ENGINE

- Electrical equipment & Radio ..... OFF
- Mixture ..... idle cut-off
- Magnetos ..... OFF
- Master switch ..... OFF
- Tacho time ..... note
- Control wheel/tie downs ..... secure



*Archer II*

## PREFLIGHT CHECK SE-IUD, SE-KIT

### INSIDE COCKPIT

Required documents .....on board  
 Control wheel ..... release  
 Primary flight controls .....proper operation  
 Seat belts ..... inertia reel  
 Master switch.....ON  
 Pitot heat .....ON  
 External lights .....ON  
 Internal lights .....check  
 Fuel quantity gauges .....check

### EXTERIOR

Exterior ..... check for damage  
 External lights .....check  
 Stall warner.....check  
 Pitot heat .....check

### INSIDE COCKPIT

Pitot heat .....OFF  
 External lights .....OFF  
 Master switch.....OFF  
 Ignition ..... verify OFF  
 Flaps ..... Extend fully

### RIGHT WING

Control surfaces ..... check for interference  
 Hinges ..... check for interference  
 Wing .....free of ice, snow, frost  
 Fuel tanks ..... check supply  
 Fuel caps .....check secure  
 Fuel tanks sumps ..... drain, check closed  
 Fuel vents ..... open  
 Main gear struts .....inflation  $6,5 \pm 1$  cm  
 Tires .....check  
 Brake blocks .....check

### NOSE PART

Windshield ..... clean  
 Propeller and spinner .... check defects, nicks  
 Alternator belt ..... check tension  
 Nose gear strut .....inflation  $7 \pm 1$  cm  
 Tire .....check  
 Engine air inlets ..... check foreign matter  
 Fuel and oil ..... check for leaks  
 Oil level ..... 6 quarts  
 Cowling ..... secure

### LEFT WING

Wing .....free of ice, snow, frost  
 Fuel tanks ..... check supply  
 Fuel caps .....check secure  
 Fuel tanks sumps ..... drain, check closed  
 Fuel vents ..... open  
 Main gear struts .....inflation  $6,5 \pm 1$  cm  
 Pitot head .....holes clear  
 Tires .....check  
 Brake blocks .....check  
 Control surfaces ..... check for interference  
 Hinges ..... check for interference

### REAR PART

Fuselage static vents (left & right) ..... clear  
 Elevator .....check  
 Tow bar ..... store  
 Baggage ..... store and secure  
 Baggage door ..... close and secure

### INSIDE COCKPIT

Flaps ..... retract  
 Life vests ..... ON for overwater flight  
 Life raft ..... reachable  
 Passenger ..... board  
 Seat belts ..... fasten  
 Passenger safety briefing .....perform

### NIGHT FLIGHT

Lights ..... internal and external OK  
 Pitot heat .....check  
 Flash light ..... one for each crew

### WINTER FLIGHT

Engine ..... preheated/warm  
 Pitot heat .....check  
 Aircraft .....free of ice, snow, frost  
 Engine air intake .....free of ice, snow, frost  
 Wheel fairings .....free of ice, snow, frost  
 Runway and taxi ways .....plowed

### REQUIRED AIRCRAFT DOCUMENTS

Aircraft flight log ..... check time to service  
 Certificate of registration ..... valid  
 Certificate of airworthiness ..... valid  
 Aircraft Review Certificate (ARC) ..... valid  
 Noise certificate ..... valid  
 Weight and balance card ..... valid  
 Reference to flight manual ..... valid  
 Radio station License ..... valid  
 Certificate of insurance ..... valid  
 Flight manual ..... valid  
 Checklist ..... check  
 Compass deviation card ..... check

### REQUIRED PILOT DOCUMENTS

Flight crew license ..... valid  
 Medical certificate ..... valid  
 Personal identification ..... valid  
 Pilot flight log ..... updated

### ON BOARD WHEN NEEDED

Flight plan calculation ..... distance > 25 nm  
 Flight plan ..... filed  
 Maps ..... current  
 Fuel calculation ..... performed  
 Weight and balance calculation ..... performed  
 Performance calculations ..... performed  
 Life vest ..... check  
 Life raft ..... check  
 Survival gear ..... check  
 Aircraft tie downs ..... check  
 Passport ..... current  
 Fuel carnet ..... check valid



## EMERGENCY PROCEDURES PA-28-181

### POWER LOSS DURING TAKEOFF

Maintain safe airspeed ..... 75 KIAS  
Land ..... straight ahead

### POWER LOSS IN FLIGHT

Maintain safe airspeed ..... 75 KIAS  
Locate ..... suitable field  
Electric fuel pump ..... ON  
Fuel selector ..... switch tank  
Mixture ..... RICH  
Carburetor heat ..... ON  
Primer ..... Locked  
Magneto ..... best effect  
Distress call ..... transmit  
Transponder ..... 7700  
ELT ..... Engage  
Engine gauges ..... check for indication  
of cause of power loss

### POWER OFF GLIDE TO LANDING

Trim for ... maximum flight time (V<sub>x</sub>) 63 KIAS  
Trim for ..... best range (V<sub>y</sub>) 79 KIAS  
Locate ..... suitable field  
Establish ..... spiral pattern  
Downwind position ..... 1000 ft  
Field reachable ..... 75 KIAS  
Gear ..... down  
Flaps ..... full

### When committed to landing

Throttle ..... close  
Mixture ..... idle cut-off  
Ignition ..... OFF  
Master switch ..... OFF  
Fuel selector ..... OFF  
Seat belt and harness ..... tight  
Door ..... open  
Trim for ..... lowest possible airspeed

### EMERGENCY LANDING ON WATER

Ditch using power ..... if possible  
Rescue sources ..... locate ships, shorelines  
Distress call ..... transmit  
Transponder ..... 7700  
Study ..... wind and sea surface  
Direction of ditching ..... decide  
Passengers ..... brief  
Life jacket ..... OUTSIDE cockpit inflate  
Survival equipment ..... readily accessible  
Personal locator beacon .. secured on person  
Seat belt and harness ..... VERY TIGHT  
Flaps ..... 25° (second notch)  
Door ..... open  
Final approach ..... commence > 500 feet  
Prepare for ..... VERY abrupt stop  
Flare ..... normal height  
Rate of descent ..... < 200 feet / minute  
Hold off ..... until impact  
Wings ..... parallel with the sea surface  
Airplane floats ..... vacate

### ENGINE FIRE DURING START

Starter ..... crank engine  
Mixture ..... idle Cut-Off  
Throttle ..... open  
Primer ..... OFF  
Fuel selector ..... OFF  
If fire continues ..... abandon aircraft

### ENGINE FIRE IN FLIGHT

Fuel selector ..... OFF  
Throttle ..... CLOSED  
Mixture ..... idle cut-off  
Auxiliary fuel pump ..... check OFF  
Heater and defroster ..... OFF  
Power off landing ..... execute

### ELECTRICAL FIRE (smoke in cabin)

Master switch ..... OFF  
Vents ..... open  
Cabin heat ..... OFF  
Land ..... as soon as practicable

### LOSS OF OIL PRESSURE or HIGH OIL TEMPERATURE

Land ..... at nearest airport  
Prepare for ..... power off landing

### LOSS OF FUEL PRESSURE

Electric fuel pump ..... ON  
Fuel selector ..... check on fullest tank

### PRIMARY VACUUM PUMP FAILURE

Auxiliary vacuum pump ..... engage  
Prepare ..... for partial panel flight  
Proceed ..... VMC if possible  
Land ..... when practical

### ALTERNATOR FAILURE

#### Verify failure

Electrical load ..... reduce  
Alternator circuit breakers ..... check  
Alt switch ..... OFF for 1 second, then ON  
**If no output**  
Alt switch ..... OFF  
Electrical load ..... reduce  
Land ..... as soon as practical

### SPIN RECOVERY

Rudder ..... full opposite to  
direction of rotation  
Control wheel ..... full forward while  
neutralizing ailerons  
Throttle ..... idle  
Rudder ..... neutral (when rotation stops)  
Control wheel ..... as required to smoothly  
regain level flight attitude

### DOOR OPEN IN FLIGHT

Slow to ..... 80 KIAS  
Cabin vents ..... close  
Storm window ..... open  
If upper latch is open ..... latch  
If side latch is open ..... pull on armrest while  
latching handle  
If both latches are open .. first latch side latch  
then latch top latch



Archer II

FLIGHT MANUAL EXCERPTS

PA-28-181 SE-IUD

WEIGHT AND BALANCE

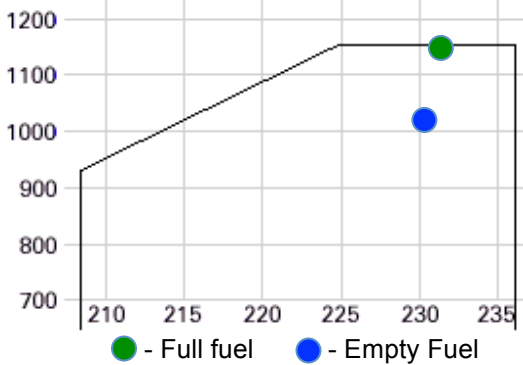
Maximum takeoff weight..... 1155 kg
Basic empty weight ..... 734 kg
Full fuel (182 l)..... 129 kg
Max cabin load full fuel..... 292 kg

Standard fuel (120 l)..... 86 kg
Max cabin load standard fuel ..... 335 kg

Example of approved max weight load

- 3 persons \* 85 kg/person
- 35 kg baggage
- Full fuel

Plan: SE-IUD
Fransits: 85+85 kg
Baksits: 85 kg
Bagage: 35 kg (Max 91.0 kg/200.6 lbs)
Bränsle: 182 l (Max 182.0 l/48.1 u.s.gallons)



TIRE INFLATION

Nose tire inflation.....(27 psi) 1,9 bar
Main tires inflation .....(30 psi) 2,1 bar

FLUIDS

Fuel..... AVGAS 100/130, 100LL, 91/96
Engine oil.....Aeroshell W80
Hydraulic brake fluid..... MIL-H-5606

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INFREQUENT PROCEDURES

STARTING ENGINE WHEN FLOODED

Master switch .....ON
Mixture..... idle cut off
Throttle ..... full FORWARD
Electric fuel pump.....OFF
Propeller ..... clear
Starter..... engage

When engine fires

Throttle .....retard
Mixture..... advance slowly

STARTING WITH EXTERNAL POWER

Master switch .....OFF
All electrical equipment .....OFF
External power plug..... insert in fuselage

Proceed with normal start

Throttle .....lowest possible RPM
External power plug..... disconnect
Master switch ..... ON – check ammeter
Oil pressure .....check

SHORT/SOFT FIELD TAKEOFF

Flaps.....25° (second notch)
Accelerate to .....41-49 KIAS
Control wheel ..... rotate
When airborne accelerate to .....45-54 KIAS
Accelerate to Vx ..... 64 KIAS
Retract the flaps ..... slowly
When past the obstacle, Vy..... 76 KIAS

PARKING

Parking brake .....OFF
Control wheel ..... secure with belts
Flaps..... retract
Wheel chocks .....in place
Tie downs ..... secure