

AIRCRAFT CHECKLIST
PIPER SECECA II PA-34-200T 2227W

CABIN

Airworthiness certificate..... CHECK
Registration..... CHECK
Operators handbook..... CHECK
Weight and balance..... CHECK
Maintenance items... CHECK CURRENT
Windshield CHECK CLEAN
Baggage..... PROPERLY STOWED
Control wheel.... RELEASE RESTRAINTS
Gear lever..... DOWN
Master switch..... ON
Gear Lights CHECK ON
Fuel quantity CHECK QUANTITY
Ext Lights AS REQUIRED
Master switch..... OFF
Cowl Flaps OPEN
Flaps..... CHECK OPERATION
Trim indicators..... SET NEUTRAL
Pitot and static system..... DRAIN
Crossfeed drains DRAIN

RIGHT WING Trailing Edge

Crossfeed drain..... CLOSED
Flaps & hinges CHECK
Aileron & hinges CHECK
Main tire.....CHECK (55psi)
Main gear strut..... 3.5”
Wing tip and light CHECK
Wing tie down DISCONNECT
Fuel sumpsDRAIN check sample
Fuel cap..... CHECK quantity, secure
Right prop..... CHECK
Right engine oil..... CHECK
Right cowl flap..... OPEN and secure

NOSE

OAT probe CHECK
Nose gear CHECK
Strut 2.5”
Lights..... CHECK
TiresCHECK (31psi)
Front baggage SECURE
Baggage door..... CLOSE & SECURE
Windshield CLEAN

LEFT WING

Left engine oil CHECK
Left cowl flap OPEN and secure
Left prop..... CHECK
Fuel cap CHECK quantity, secure
Fuel Sumps DRAIN check sample
Wing tie down DISCONNECT
Wing tip and light..... CHECK
Main tire..... CHECK (55psi)
Main gear strut 3.5”
Pitot tube CHECK
Stall warning vanes CHECK

LEFT WING Trailing Edge

Flaps & hinges..... CHECK
Aileron & hinges CHECK

FUSELAGE

Antennas CHECK
Baggage..... SECURE
Baggage door..... CLOSED and secure
Left static port CHECK
Air scoop..... CHECK
Stabilator & trim tab CHECK
Tie down..... REMOVE
Right static post CHECK
Rudder..... CHECK

BEFORE STARTING ENGINE

Preflight inspection..... COMPLETE
Passenger brief COMPLETE
Hobbs and tach times RECORDED
Seats & belts..... AJUST & LOCK
Brakes..... TEST
Parking brake..... SET
Circuit breakers..... CHECK IN
Master avionics..... OFF
Propellers FULL FORWARD
Alternate air OFF
Cowl flaps OPEN
Fuel selector BOTH ON
Alternators ON
Heater, Defrost, vent fan..... OFF

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STARTING ENGINE

Anti-collision switch..... ON
Throttle 1/2 travel
Mixture RICH
Master switch..... ON
Electrical Equipment CHECK OFF
Primer button PRESS 3 sec
Throttle SET OPEN 1"
Magnetos ON
Propeller area..... CLEAR
Starter ENGAGE

AFTER ENGINE START

Throttle ADJUST 1000-1200 RPM
Oil pressure CHECK
Mixture LEAN for taxi (1")

BEFORE TAXI

Master Avionics ON
Electrical equipment ON
Crew communication CHECK
Heater & defroster..... SET
ATIS OBTAIN
Clearance OBTAIN
Annunciator panel CHECK
Gear indicator lights..... ON
Transponder SET
Radio SET & CHECK
Flaps UP
Fuel selector SET crossfeed
Parking brake RELEASE
Rolling brake test TEST

BEFORE TAKEOFF (run up)

Parking brake SET
Auto pilot OFF
Cabin doors CLOSED and LATCHED
Flight controls FREE and CORRECT
Flight instruments SET
Elevator & rudder trim SET
Trim switch CK PROPER FUNCTION
Flaps SET
Fuel selector valve SET crossfeed
Throttle SET 1000
Manifold pressure lines DRAIN
Throttle 1900 RPM
Props CYCLE 3X (<500rpm)

Alternate air CHECK
Magnetos 150/50
Oil press & temp CHECK
Alternator output CHECK
Fuel pressure CHECK
Vacuum 4.8 to 5.1
Throttle 1000 RPM
Friction lock SET
Fuel selector SET BOTH ON
Lights AS REQUIRED
Takeoff brief COMPLETE
Time CHECK
Mixture SET FULL RICH
Brakes RELEASE

NORMAL TAKEOFF

Wing flaps 0
Throttle SET max 40
Elevator Rotate at 70 KIAS
Climb speed 90 KIAS

SHORT FIELD TAKEOFF

Wing flaps 25°
Runway USE ALL
Brakes APPLY
Throttle SET 40"(31 for simulation)
Engine instruments CHECK
Flight controls NEUTRAL
Brakes RELEASE
Elevator ROTATE at 66 KIAS
Climb speed 75 KIAS
-After clearing obstacle

Gear UP
Flaps UP incrementally
Climb speed 89 KIAS
Establish cruise climb

AFTER TAKEOFF

Flaps UP
Cowl flaps VERIFY OPEN
Gear UP
Climb speed 90 KIAS
Throttle SET 31"
Prop SET 2500 RPM
Engine temp/press CHECK
Lights AS REQUIRED

ENROUTE CLIMB

Airspeed 100 KIAS
Throttle SET 31"
Propeller..... SET 2450 rpm
Mixture SET
Cowl flaps..... AS REQUIRED

CRUISE

Throttle SET
Propeller..... SET
Elevator Trim ADJUST
Rudder Trim ADJUST
Mixture LEAN for altitude
EGT set 75° less/rich of peak
Cowl flaps..... AS NEEDED

DESCENT

Mixture ENRICHEN
Alt Air CLOSED
Cowl flaps..... CLOSED

IN RANGE (when in radio range)

ATIS..... GET WEATHER INFO
Altimeter SET
Align DG with Compass..... COMPLETE
Avionics..... SET
Approach Brief COMPLETE

BEFORE LANDING

Gas (fuel selector)..... ON
Under Carriage (gear) DOWN
Mixture RICH
Props..... SET FOR LANDING
Seat Belts ON
Switches LIGHTS AS REQUIRED

NORMAL LANDING

Approach speed..... 100/90/80 KIAS
Wing Flaps..... AS REQUIRED

SHORT FIELD LANDING

Gear DOWN
Airspeed 75-85 KIAS
Flaps..... 40°
Throttle IDLE when appropriate
Touchdown..... MAIN WHEELS FIRST
Brakes APPLY HEAVILY
Flaps..... 0°
Elevator..... FULL BACK

REJECTED LANDING (go around)

Throttle SET 40" max
Airspeed 75 KIAS
Gear UP
Wing Flaps..... RETRACT incrementally
Airspeed 90 KIAS
Throttle SET 31"
Prop..... SET 2500 RPM
Engine temp/press..... CHECK
Cowl flaps OPEN

AFTER LANDING

Flaps UP
Mixture..... LEAN for taxi (1")
Transponder AS REQUIRED
Aux Fuel Pump..... OFF
Heater RUN fan 2 min before off
Lights..... AS REQUIRED
Cowl flaps OPEN

ENGINE SHUTDOWN

Parking Brake..... AS REQUIRED
Heater OFF
Defrost OFF
Vent fan..... OFF
Master avionics..... OFF
Mixtures IDLE CUT OFF
Switches OFF
Master Switch..... OFF

SECURE AIRCRAFT

Yoke SECURE WITH SET BELT
Wheel Chocks PLACE
Tie Downs..... ATTACH
Doors..... LOCK

AIR START (UNFEATHERING)

Fuel Selector..... ON
Throttle OPEN ¼"
Prop Control CRUISE RPM
Mixture..... RICH
Magnetos ON
Starter ENGAGE until unfeathered
Throttle REDUCE until eng warm
If engine does not start, prime
Increase engine speed if necessary
Alternator ON

EMERGENCY PROCEDURES

ENGINE FAILURE: DURING TAKEOFF

Throttle IDLE
BrakesAPPLY
Master Switch..... OFF
Fuel Selectors OFF

ENGINE FAILURE:

IMMEDIATELY AFTER TAKEOFF

Airspeed 85KIAS
Flaps.....UP
Gear RETRACT
Inop Prop..... FEATHER
Inop Engine SECURE

ENGINE FAILURE: DURING FLIGHT

RudderAS NEEDED
Ailerons BANK TOWARD GOOD ENG
Throttles..... AS REQUIRED
Inop Engine IDENTIFY
Inop Engine VERIFY
Mixture RICH
PropFULL FORWARD
Alternate Air..... ON
Cowl Flaps AS REQUIRED
Fuel selector XFEED
Fuel pump ON
Magnetos CHECK ON
If engine does not start,
Inop Engine SECURE

SECURING ENGINE

Inop Engine VERIFY
Prop FEATHER
Mixture IDLE CUTOFF
Alternate Air..... OFF
Cowl Flap.....Closed
Fuel Selector, inop side OFF
Fuel Selector, good side XFEED
Magnetos OFF
Fuel Pumps..... OFF
Alternator..... OFF
Electrical Load REDUCE TO MIN

SINGLE ENGINE LANDING

Inop Prop..... FEATHER
Inop ENG SECURE
GearEXTEND
Flaps..... 25°
Airspeed 91 KIAS

ENGINE FIRE IN FLIGHT

Affected Engine

Throttle CLOSED
Prop..... FEATHER
Mixture..... IDLE CUT-OFF
Fuel selector valve OFF
Fuel Pump..... OFF
Heater OFF
Defroster OFF

EMERGENCY DESCENT

Throttles..... CLOSED
PropsFORWARD
Mixture..... SET
Gear DOWN
Airspeed 129 KIAS

EMERGENCY GEAR EXTENSION

Master switch..... ON
Circuit breakers.....CHECK
AlternatorsCHECK
Nav lights..... OFF (in daytime)
Gear indicator bulbCHECK
Airspeed below 85 KIAS
Gear lever DOWN
Emer gear knob..... PULL

If gear still is not locked down:

-Yaw aircraft rapidly back and forth

-Recycle gear lever

ALTERNATOR FAILURE

inop alternator..... IDENTIFY
inop alternator.....RESET
If it does not reset:

Electrical load REDUCE

GYRO PRESSURE FAILURE

RPM's INCREASE to 2450

Altitude DESCEND to maint 4.5HG