

# SENECA

## CHECKLIST PA-34 200T SENECA II



## **NORMAL PROCEDURES CHECKLIST PA-34-200T SENECA II**

### **PREFLIGHT CHECK**

#### **INSIDE CABIN**

Avionics Master Switch -- OFF  
Landing Gear Control. -- DOWN  
Mixture Controls -- IDLE/CUTOFF  
Ignition Switches -- OFF  
Master Switch -- ON  
Landing Gear Lights -- 3 GREEN  
Fuel Quantity -- ADEQUATE plus RESERVE  
Master Switch -- OFF  
Cowl Flaps -- OPEN  
Trim Indicators -- NEUTRAL  
Pitot/Static System -- DRAIN  
Flaps. -- DOWN  
Controls -- FREE  
Empty Seats -- FASTEN BELTS  
Crossfeed drain -- DRAIN

#### **OUTSIDE CABIN**

Crossfeed drains -- CLOSED  
Right wing, aileron and flap -- CHECK, NO ICE  
Right main gear -- NO LEAKS  
Strut -- PROPER INFLATION  
Tire -- CHECK  
Right Wing Tip -- CHECK  
Right Leading Edge -- CHECK, NO ICE  
Fuel Cap -- OPEN, CHECK QUANTITY and COLOR, SECURE  
Right Engine Nacelle -- CHECK OIL  
Right Propeller -- CHECK  
Cowl Flaps -- OPEN AND SECURE  
Fuel Drains -- DRAIN  
Nose section -- CHECK  
Nose Gear -- NO LEAKS  
Strut -- PROPER INFLATION  
Tow Bar -- REMOVED AND STOWED

Landing Light -- CHECK  
 Forward Baggage Door (keyremovable in locked position only) -- SECURE AND LOCKED  
 Wingshield -- CLEAN  
 Left Wing, Engine Nacelle and Landing Gear -- CHECK AS ON RIGHT SIDE  
 Pitot Tube -- CLEAR, CHECKED  
 Stall Warning Vanes -- CHECK  
 Rear Door -- LATCHED  
 Left Static Vent -- CLEAR  
 Dorsal Fin Air Scoop -- CLEAR  
 Empennage -- CHECK, NO ICE  
 Stabilator -- FREE  
 Right Static Vent -- CLEAR  
 Antennas -- CHECK  
 Navigator and Landing Lights -- CHECK

## **BEFORE STARTING ENGINES**

Seats -- ADJUSTED  
 Seat Belts and Shoulder Harness -- FASTEN, ADJUST  
 Parking Brake -- SET  
 Circuit Breakers -- IN  
 Radios -- OFF  
 Alternate Air -- OFF  
 Alternators -- ON  
 Cowl Flaps -- OPEN

## **STARTING ENGINES** **(\*repeat for both engines)**

Fuel Selectors -- ON  
 Mixture -- RICH  
 Throttle -- HALF TRAVEL  
 Propeller -- FORWARD  
 Master Switch -- ON  
 Ignition Switches -- ON  
 \*Propeller -- CLEAR  
 \*Starter -- ENGAGE  
 Primer button -- ON AS REQUIRED  
 \*Throttle -- RETARD WHEN ENGINE STARTS  
 \*Oil Pressure -- CHECK  
 \*Alternator -- CHARGING  
 Gyro pressure -- CHECK

**STARTING ENGINE WHEN FLOODED**

Mixture -- IDLE CUTOFF

Throttle -- FULL FORWARD

Propeller -- FULL FORWARD

Master -- SWITCH ON

Ignition Switches -- ON

Auxiliary Fuel Pump -- OFF

\*Propeller -- CLEAR

\*Starter -- ENGAGE

When engine fires:

\*Throttle -- RETARD

\*Mixture -- ADVANCE SLOWLY

**STARTING WITH EXTERNAL  
POWER SOURCE**

Master Switch -- OFF

All Electrical Equipment -- OFF

Terminals -- CONNECT

External Power Plug -- INSERT IN FUSELAGE

Master Switch -- ON -- CHECK AMMETER

Oil pressure Switch -- CHECK

**WARM-UP**

Throttles -- 1000 to 1200 RPM

TAXIING

Chocks -- X-FEED

Taxi Area -- CLEAR

Throttle -- APPLY SLOWLY

Brakes -- CHECK

Steering -- CHECK

Instruments -- CHECK

Heat and defroster -- CHECK

Fuel Selector -- ON, CHECK CROSSFEED

Autopilot -- OFF

**BEFORE TAKEOFF – GROUND CHECK**

Parking Brake -- ON  
Mixture Controls -- FORWARD  
Propeller Controls -- FORWARD  
\*Throttle Control -- 1000 RPM  
\*Manifold pressure lines -- DRAIN  
\*Propeller Controls -- CHECK FEATHERING,  
300 RPM max. DROP  
\*Throttle Control -- 1900 RPM  
\*Propeller Controls -- CHECK GOVERNOR  
\*Propeller Controls -- FULL FORWARD  
\*Alternate Air -- ON then OFF  
\*Magnetos -- CHECK max DROP 150 RPM. Max DIFF.  
DROP 50 RPM  
\*Alternator output -- CHECK  
\*Gyro Pressure Gauge -- 4.5: - 5.2" Hg  
\*Throttle -- 800-1000 RPM  
Fuel Selectors -- ON  
\*Alternator -- ON  
\*Engine Gauges -- IN THE GREEN  
Annunciator Panel -- PRESS TO TEST  
Altimeter -- SET  
Attitude Indicator -- SET  
D.G. -- SET  
Clock -- WOUND and SET  
Mixtures -- RICH  
Propellers -- SET IN FORWARD POSITION  
Quadrant Friction Lock -- ADJUSTED  
Alternate Air -- OFF  
Cowl Flaps -- SET  
Wing Flaps -- SET  
Trim -- SET  
Seat Belts and Harness -- FASTEN ADJUST  
Empty Seats -- SEAT BELTS FASTENED  
Controls -- FREE, FULL TRAVEL  
Doors -- LATCHED  
Auxiliary Fuel Pumps -- OFF  
Pitot Heat -- AS REQUIRED

## TAKEOFF

### CAUTIONS

Do not exceed 40 in. Hg. Manifold pressure.

Fast taxi turns immediately prior to takeoff run can cause temporary malfunction of one engine during takeoff.

Normal sea level takeoff at 39 in. Hg.  
And 2575 RPM.

Adjust mixture prior to takeoff from high elevations.  
Do not overheat. Do not exceed 40 in. Hg. Manifold pressure.

### NORMAL TAKEOFF (Flaps up)

Flaps -- UP

Accelerate to 66 to 71 KIAS

Control Wheel -- EASE BACK TO

ROTATE TO CLIMB

ATTITUDE

After breaking ground, accelerate to best  
rate of climb speed of 89 KIAS

Gear -- UP

### SHORT FIELD TAKEOFF (Flaps up)

Flaps -- UP

Stabilator trim -- TAKEOFF RANGE

Brakes -- SET

Full power before brake release

Accelerate to 66 KIAS

Control Wheel -- ROTATE FIRMLY TO

ATTAIN 71 KIAS

THROUGH 50 ft.

Accelerate to best angle of climb speed of 76 KIAS  
For obstacle clearance or best rate of climb speed  
of 89 KIAS.

Gear -- UP

**SHORT FIELD TAKEOFF (25° Flaps)**

Flaps -- 25° (second notch)  
Stabilator trim -- SET  
Brakes -- SET  
Full power before brake release  
Accelerate to 61 KIAS  
Control Wheel -- ROTATE FIRMLY TO  
                                ATTAIN 69 KIAS  
                                THROUGH 50 ft.  
Gear -- UP

**TAKE OFF CLIMB**

Mixture -- FULL RICH  
Prop Speed -- 2575 RPM  
Manifold Pressure -- DO NOT EXCEED 40 in. Hg.  
Climb Speed  
            Best Angle -- 76 KIAS  
            Best Rate -- 89 KIAS  
Cowl Flaps -- AS REQUIRED

**CRUISE CLIMB**

Mixture -- FULL RICH  
Prop Speed -- 2450 RPM  
Manifold Pressure -- 31.5 in. Hg.  
Climb Speed -- 102 KIAS  
Cowl Flaps -- AS REQUIRED

**CRUISING**

Reference performance charts. Teledyne Continental  
Operator's Manual and power setting table  
Power -- SET.  
Cowl Flaps -- AS REQUIRED  
Mixture -- ADJUST  
Engine Gauges -- MONITOR

## DESCENT

Mixture -- ENRICH WITH DESCENT

Throttles -- CRUISE SETTING

Cowl Flaps -- CLOSED

## APPROACH AND LANDING

Gear warning horn -- CHECK

Airspeed -- 98 KIAS ON DOWNWIND LEG

Seat Backs -- ERECT

Seat belts and harness -- FASTEN ADJUST

Fuel Selectors -- ON

Cowl Flaps -- AS REQUIRED

Auxiliary Fuel Pumps -- OFF

Mixture Controls -- SET

Propellers -- 2250 RPM

Landing Gear -- DOWN, 129 KIAS max.

Flaps -- SET AS REQUIRED

Airspeed -- 97 KIAS ON BASE LEG

87 KIAS ON FINAL

On close final:

Power -- REDUCED

Prop. Controls -- FULL FORWARD

## GO-AROUND

Full takeoff power, both engines (40 in. Hg. Max.)

Establish positive climb

Flaps -- RETRACT

Gear -- UP

Cowl Flaps -- ADJUST

## AFTER LANDING

Clear of Runway

Flaps -- RETRACT

Cowl Flaps -- FULLY OPEN

Alternate Air -- OFF



## SHUTDOWN

Heater -- FAN 2 MIN. THEN OFF

Radio and Electrical Equipment -- OFF

Mixture -- IDLE/CUT-OFF

Magnetos Switches -- OFF

Master Switch -- OFF

Parking Brake -- SET ON



CHECKLIST PA-34 200T SENECA II

## EMERGENCY PROCEDURE PA-34 200T SENECA II

<b>VNE - Never Exceed Speed</b>	<b>195 KIAS</b>
<b>VNO - Max Structural Cruising Speed</b>	<b>163 KIAS</b>
<b>VA - Maneuvering Speed</b>	
<b>4570 pounds</b>	<b>136 KIAS</b>
<b>3068 pounds</b>	<b>121 KIAS</b>
<b>VFE - Maximum Flap Extended Speed</b>	<b>107 KIAS</b>
<b>VLE - Maximum Gear Extended Speed</b>	<b>129 KIAS</b>
<b>VLO - Maximum Landing Gear Extension Speed</b>	<b>129 KIAS</b>
<b>VLO - Maximum Landing Gear Retraction Speed</b>	<b>107 KIAS</b>
<b>VMC - Air Minimum Control Speed</b> (Lowest airspeed at which airplane is controllable with one engine operating and no flaps).	<b>66 KIAS</b>
<b>Best Single Engine Rate of Climb Speed</b>	<b>89 KIAS</b>



<b>MARKING</b>	<b>KIAS VALUE OR RANGE</b>
<b>White Arc</b>	<b>61 - 107</b>
<b>Green Arc</b>	<b>63 - 163</b>
<b>Yellow Arc</b>	<b>163 - 195</b>
<b>Red Line</b>	<b>195</b>

# SENECA

EMERGENCY PROCEDURE PA-34 200T SENECA II



## **EMERGENCY PROCEDURES PA-34-200T SENECA II**

### **ENGINE INOPERATIVE PROCEDURES**

#### **DETECTING DEAD ENGINE**

Loss of thrust:

Nose of Aircraft will yaw in direction of dead engine

#### **ENGINE SECURING PROCEDURE**

(FEATHERING PROCEDURE)

To attempt to restore power prior to feathering:

Mixtures -- AS REQUIRED

Fuel Selector -- CROSS FEED

Magnetos -- LEFT OR RIGHT ONLY

Alternate Air -- ON

Auxiliary Fuel Pump -- UNLATCH. ON HI. IF  
POWER IS NOT IMMEDIATELY  
RESTORES, OFF

Feather before RPM Drops Below 800

Minimum control speed -- 65 KIAS

Best S.E.R.C -- 89 KIAS

Maintain direction and airspeed above 76 KIAS

Mixture Controls -- FORWARD

Propeller Controls -- FORWARD

Throttle Controls -- FORWARD (40 in Hg MAX)

Flaps -- RETRACT

Gear -- RETRACT

Modify inoperative engine

Throttle of Inoperative Engine -- RETARD TO VERIFY

Mixture of Inoperative engine -- IDLE, CUT-OFF

Prop control of inop. Engine -- FEATHER

Trim -- AS REQUIRED

Auxiliary Fuel Pumps -- OFF  
(EXCEPT IN CASE OF ENGINE  
DRIVEN PUMP FAILURE)

Magnetos of inop. Engine -- OFF

Cowl Flaps -- CLOSE ON INOP. ENGINE,  
AS REQUIRED ON OPERATIVE ENGINE

Alternator of inop. Engine -- OFF  
Electrical Load -- REDUCE  
Fuel Management -- OFF INOP. ENGINE.  
CONSIDER CROSSFEED

## **ENGINE FAILURE DURING TAKEOFF (Below 85 KIAS)**

If engine failure occurs during takeoff and 85 KIAS  
has not been  
Attained:  
Throttles -- CLOSE BOTH IMMEDIATELY

Stop straight ahead

If inadequate runway remains to stop  
Throttles -- APPLY MAX BRAKING  
Master Switch -- OFF  
Fuel Selectors -- OFF  
Continue straight ahead, turning to avoid obstacles

## **ENGINE FAILURE DURING TAKEOFF (85 KIAS or above)**

If engine failure occurs during takeoff ground roll  
or after lift-off with gear still down and 85 KIAS has  
been attained: If adequate runway remains CLOSE both  
throttles immediately, land if airborne and stop straight  
ahead. If runway remaining is inadequate for stopping,  
decide whether to abort or continue. If decision is made to  
continue, maintain heading and airspeed. Retract landing  
gear when climb is established and feather inoperative  
engine prop (see Engine Securing Procedure).

## **ENGINE FAILURE DURING CLIMB**

If engine failure occurs when airspeed is below 66 KIAS:  
Rudder -- APPLY TOWARDS OPERATING ENGINE  
Throttles -- REDUCE THROTTLE SETTINGS  
AS REQUIRED TO MAINTAIN  
DIRECTIONAL CONTROL  
Nose -- LOWER NOSE TO ACCELERATE  
BEST SINGLE ENGINE RATE OF  
CLIMB SPEED (89 KIAS)

Operating Engine -- INCREASE POWER AS AIRSPEED  
INCREASES ABOVE 66 KIAS

Inoperative engine Prop.-- FEATHER (SEE ENGINE  
SECURING PROCEDURE)

If engine failure occurs when airspeed  
is above 66 KIAS:

Maintain directional control.

Adjust airspeed toward the best single engine rate of  
climb speed (89 KIAS)

Inoperative engine Prop. -- FEATHER (SEE ENGINE  
SECURING PROCEDURE)

## **ENGINE FAILURE DURING FLIGHT (Below 66 KIAS)**

Rudder -- APPLY TOWARDS OPERATING  
ENGINE

Throttles (both engines). -- RETARD TO STOP TURN

Pitch Attitude. -- LOWER NOSE TO ACCELERATE  
ABOVE 66 KIAS

Operating Engine. -- INCREASE POWER AS AIRSPEED  
INCREASES ABOVE 66 KIAS

If altitude permits, a restart may be attempted.

If restart fails or altitude does not permit:

Inoperative engine Prop. -- FEATHER

Trim. -- ADJUST 5° BANK

TOWARDS OPERATIVE ENGINE

Inoperative engine. -- COMPLETE ENGINE  
SECURING PROCEDURE

Cowl Flap (Operating Engine) -- AS REQUIRED

## **ENGINE FAILURE DURING FLIGHT (Above 66 KIAS)**

Rudder -- APPLY TOWARDS OPERATING ENGINE

Inop. Eng. -- IDENTIFY

Operative Eng. -- ADJUST AS REQUIRED

Before Securing Inop. Engine:

Fuel Flow -- CHECK (IF DEFICIENT,  
AUXILIARY FUEL PUMP  
HI BOOST, IF POWER IS NOT  
RESTORED, OFF

Fuel Quantity -- CHECK

Fuel Selector (Inop. Eng.) -- CROSS FEED

Alternate Air -- ON

Mixture -- CHECK

Oil Pressure and Temp -- CHECK

Magnetos Switches -- CHECK

If engine does not start, complete Engine Securing  
Procedure.

Power (Operative Eng.) -- AS REQUIRED

Mixture (Operative Eng.) -- ADJUST FOR POWER

Fuel Quantity (Operative Eng. Tank) -- SUFFICIENT

Auxiliary Fuel Pump (Operative Eng.) -- AS REQUIRED

Cowl Flap (Operative Eng.) -- AS REQUIRED

Trim (Rudder) -- ADJUST 5° BANK  
TOWARDS OPERATIVE ENGINE

Electrical Load -- DECREASE TO MIN. REQUIRED

Land as soon as practical at nearest suitable airport.

## **SINGLE ENGINE LANDING**

Inop. Engine Prop. -- FEATHER

When certain of making field:

Landing Gear -- EXTEND

Wing Flaps -- LOWER

Maintain additional altitude  
and speed during approach.

Final Approach Speed -- 91 KIAS

Wing Flaps -- 25°

## **SINGLE ENGINE GO-AROUND (Avoid if at all possible)**

Mixture -- FORWARD

Propeller -- FORWARD

Throttle -- OPEN SLOWLY TO 40 in HG

FLAPS -- RETRACT

Landing Gear -- RETRACT



EMERGENCY PROCEDURE PA-34 200T SENECA II

Mixture -- RICH  
Magneto Switches -- ON  
Starter -- ENGAGE UNTIL  
PROP WINDMILLS  
Throttle -- REDUCE POWER UNTIL  
ENGINE IS WARM  
If engine does not start, prime as required.  
Alternator -- ON

## ENGINE FIRE ON GROUND

If engine has not started:  
Mixture -- IDLE CUTOFF  
Throttle -- OPEN  
Starter -- CRACK ENGINE  
If engine has already started and is running, continue  
operating to try pulling the fire into the engine.

If fire continues, extinguish with best available means  
Fuel Selectors -- OFF  
Mixture -- IDLE CUT OFF

## ENGINE FIRE IN FLIGHT

Affected Engine:  
Fuel Selector -- OFF  
Throttle -- CLOSE  
Propeller -- FEATHER  
Mixture -- IDLE CUTOFF  
Heater -- OFF  
Defroster -- OFF  
If terrain permits land immediately, if fire continues.

## **FUEL MANAGEMENT DURING SINGLE ENGINE OPERATION**

### **CRUISING**

When using fuel from tank on the same side as the operating engine:

Fuel Selector Operating Engine -- ON

Fuel Selector Inop. Engine -- OFF

Auxiliary Fuel Pumps -- OFF

When using fuel from tank on the side opposite the operating engine:

Fuel Selector Operating Engine -- CROSSFEED

Fuel Selector Inop. Engine -- OFF

Auxiliary Fuel Pumps -- OFF

Use crossfeed in level flight only.

#### **NOTE**

Do not crossfeed with full fuel on same

Side as operating engine since vapor return fuel flow will be lost through the vent system.

### **LANDING**

Fuel Selector Operating Engine -- ON

Fuel Selector Inop. Engine -- OFF

### **ENGINE DRIVEN FUEL PUMP FAILURE**

Throttle -- RETARD

Auxiliary Fuel Pump -- UNLATCH on HI

Throttle -- RESET (75% POWER OR BELOW)

#### **CAUTIONS**

If normal engine operation and fuel flow is not immediately re-established, the auxiliary fuel pump should be turned off. The lack of a fuel flow indicator while on the HI auxiliary fuel pump position could indicate a leak in the fuel system or fuel exhaustion.

# EMERGENCY PROCEDURE PA-34 200T SENECA II

Red light indicates gear is in transit.  
Recycle the gear if the indication continues.  
Light will illuminate when the gear horn sounds at low throttle settings.

Check following before extending gear manually:  
Circuit Breakers -- CHECK  
Master Switch -- ON  
Alternators -- CHECK  
Navigation Lights -- OFF (DAYTIME)

Airspeed -- REDUCE (85 KIAS MAX)  
Gear Selector -- GEAR DOWN  
LOCKED POSITION

Indicator Lights -- 3 GREEN

Select alternate air and attempt restart.

If unable to restart engine:

Inop. Prop -- FEATHER

Airspeed -- AT OR ABOVE 89 KIAS

Descend if necessary to maintain airspeed

Electrical Load -- REDUCE

Avoid further icing conditions if possible.

Land as soon as practical.

Maintain at least 89 KIAS on final.

Do not extend gear or lower flaps until certain of making field.

Flaps -- 25°

## **ALTERNATOR FAILURE IN ICING CONDITIONS**

Overvoltage Relay -- RESET

Circuit Breakers -- CHECK AND RESET

If unable to restore alternator:

Avionics -- ALL OFF EXCEPT

NAV COM AND TRANSP

Electric Windshield -- OFF TO MAINTAIN 65A LOAD

If icing continues terminate flight as soon as practical.

Prior to landing:

Electric Windshield -- ON IF NECESSARY

Gear may require free fall extension.

## **ELECTRICAL FAILURES**

ALT annunciator light illuminated

Ammeters -- OBSERVE TO

DETERMINE INOP. ALT.

If both ammeters show zero output, reduce electrical load to minimum.

Turn OFF both alt. switches: then turn them ON momentarily one at a time while observing ammeters. Determine alt. showing LEAST (but not zero) amperes and turn its switch on.

Electrical Loads -- RE-ESTABLISH UP TO 60A

If one ammeter shows zero output, cycle its switch off, then on.

If power is not restored check circuit breakers and reset once if required.

If alternator remains inoperative, reduce electrical loads and continue flight.

WARNING Compass error may exceed 10° with both alternators inoperative.

## **GYRO PRESSURE FAILURES**

Pressure below 4.5 in Hg.

RPM -- INCREASE TO 2575

ALTITUDE -- DESCEND TO MAINTAIN 4.5 in HG

Use electrical turn indicator to monitor Directional Indicator and Attitude Indicator performance.

## **COMBUSTION HEATER OVERHEAT**

Unit will automatically cut-off

Do not attempt to restart.

## **SPINS**

Throttles -- RETARD TO IDLE

Rudder -- FULL OPPOSITE TO

DIRECTION OF SPIN

Control Wheel -- RELEASE BACK PRESSURE

Control Wheel -- FULL FORWARD IF

NOSE DOES NOT DROP

Ailerons -- NEUTRAL

Rudder -- NEUTRALIZE WHEN

ROTATION STOPS

Control Wheel -- SMOOTH BACK PRESSURE

TO RECOVER FROM DIVE

## **EMERGENCY DESCENT**

Throttles -- CLOSED

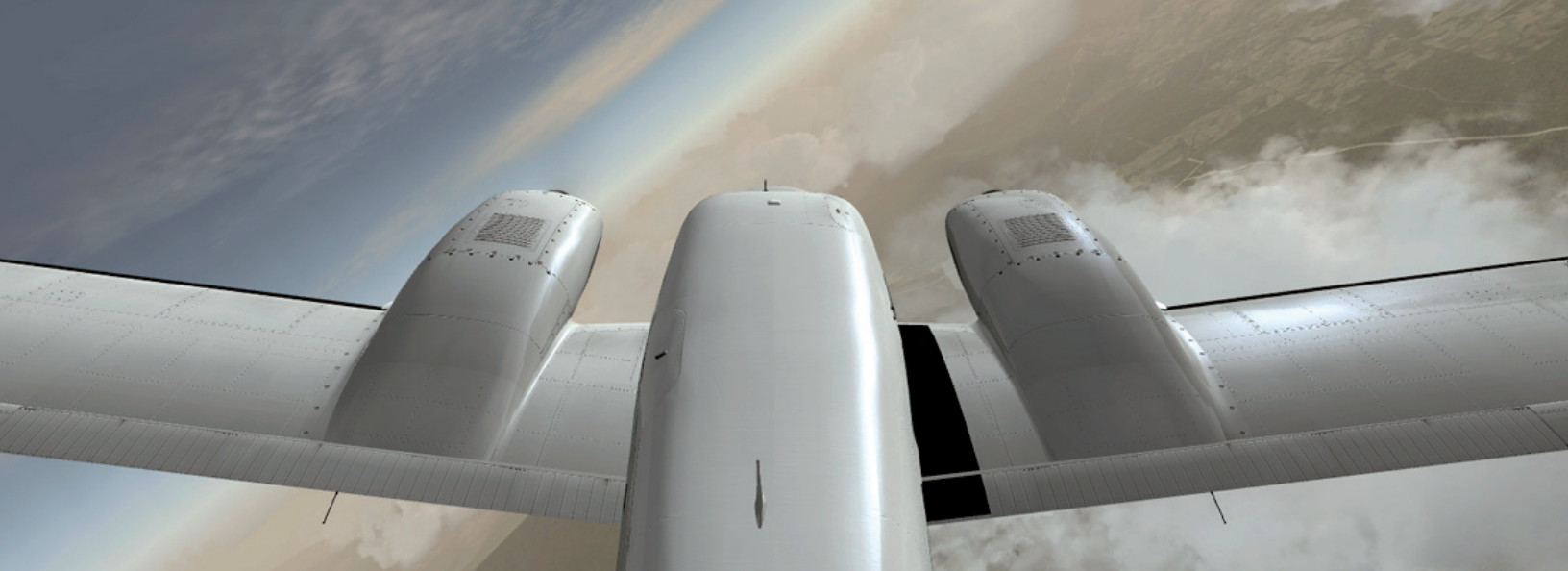
Propeller -- FULL FORWARD

Mixture -- AS REQUIRED FOR

SMOOTH OPERATION

Landing Gear -- EXTEND

Airspeed -- 129 KIAS



EMERGENCY PROCEDURE PA-34 200T SENECA II



# VIRTUAL COCKPIT

## Operation

Flying a twin engine aircraft requires seeing more instruments at the same time than flying a single engine aircraft. Carenado has recreated an extremely real VC of the PA-34 Seneca II which allows you to fly it as if you were in the real aircraft checking all the instruments at the same time.

Highly detailed instruments with zoom capabilities and a smooth running in terms of FPS make this aircraft completely flyable from the VC, as in real life.

We developed this aircraft focused on creating an extremely realistic experience in terms of flight dynamics, behavior and visual representation.

- 1.- Clock
- 2.- Airspeed
- 3.- Artificial horizon
- 4.- Altimeter
- 5.- Test Panel Anuntiator
- 6.- Autopilot Panel Anuntiator
- 7.- Gear warning light
- 8.- Comm1& Nav1
- 9.- GPS
- 10.- Copilot instruments
- 11.- Avionics & Gps/Nav Switch
- 12.- DME
- 13.- Adjust ADF
- 14.- Turn coordinator
- 15.- HSI
- 16.- Transponder
- 17.- Variometer
- 18.- VOR Radial
- 19.- Comm 2 & Nav2
- 20.- ADF
- 21.- Toggle yoke
- 22.- Fuel & Oil indicators
- 23.- Radio controller
- 24.- Autopilot
- 25.- RPM E1 & E2
- 26.- Gear Control & Position gear light
- 27.- Engine Controls
- 28.- Brakes
- 29.- EGT E1 & E2
- 30.- Fuel Flow
- 31.- Alternate Air E1 & E2
- 32.- Manifold pressure
- 33.- Instruments light
- 34.- Elevator & Ailerons trim
- 35.- Cross feed fuel
- 36.- Engine control panel

Engine Magnetos  
Primer Left & Right  
Engines Starter  
Landings lights  
Nav lights  
Anti Collision Lights  
Pilot Heat  
Fuel Pumps  
Master  
Alternator Switches



PA-34 200T SENECA II



Autopilot operation:  
Before using any autopilot option (HDG, ALT, etc.) you have to turn ON the Autopilot, otherwise the FD will turn ON when pressing HDG, ALT or NAV.

