

PIPER SEMINOLE PA44-180 CHECKLIST



NICE AIR

Engine air intake-Check
Propeller-Check
Engine cowl and door-Check

PRE FLIGHT

COCKPIT

AROW-Check
Landing gear handle-Down
Control lock-Remove
Battery switch-On
Gear light-Check
Fuel gauge-Check
Nav light-Check
Pitot heat-Check
Battery switch-Off
Trims-Set for T/O
Flap-Check

RIGHT WING

Flap-Check
Aileron-Check
Lights-Check
Fuel-Check
Tie down and chock-Remove
Engine oil-Check
Engine air intake-Check
Propeller-Check
Engine cowl and door-Check
Cowl flap-Check
Tire, Brake, Strut, Trinion-Check

NOSE SECTION

Landing light-Check
Well door, Tire, Strut-Check
Window shield-Clean

LEFT WING

Cowl flap-Check
Tire, Brake, Strut, Trinion-Check
Engine oil-Check

Propeller-Check
Fuel-Check
Tie down and chock-Remove
Stall warning vane-Check
Pitot, Static-Check
Light-Check
Aileron-Check
Flap-Check

EMPENNAGE

Rudder, Tabs-Check
Stabilator-Check
Tail cone-Check
Tie down-Remove

RIGHT FUSELAGE

Drain(2)-Check
Baggage door-Close

PRE-START

Seat-Adjust and lock
Belt,harness-Fastened
Brake-Set
Circuit breaker-In
Landing gear handle-Down
Avionics-Off
Cowl flap-Open
Auto pilot-Off
Fuel selector-On
Carb heat-Off
Battery switch-On
Landing gear-Three green
Alternators-On

NORMAL STARTING
<p>LEFT ENGINE Magneto switches-On Mixture-Rich Propeller-High RPM Throttle-1/2 in. open Prime-As required Fuel pump-On Propeller area-Clear Starter-On Throttle-1000 RPM Oil pressure-25 PSI in 30 sec. Ammeter-check Suction-Check Fuel pump-Off</p> <p>RIGHT ENGINE Repeat above Mixture-Lean for taxi Storo light-On Radio-On Transponder Stand by</p>

TAXING
Parking brake-Off Brake-Check X feed-Check Flight instruments-Check

BEFORE TAKEOFF
Parking brake-Set Cowl flap-Open Fuel selector-On Mixture-Rich Prop-High RPM Throttle-1500 RPM Prop-Feather Throttle-2000 RPM Prop-Excercise Magnetos-Check Max drop 175/50 diff. Carb heat-Check Alternator-Check Suction-4.8 to 5.2 in-hg Throttle-1000 RPM Annunciator pannel-Check Flight instrument-Check Flight control-Free and correct Flap-Check Engine gauge-Green Friction-Lock Radio-Set Doors and windows-Lock Parking brake-Off

TAKEOFF
Seat belt-Fastened Fuel selector-On Trim-Set Flap-Set Mixture-Set Prop-high RPM Fuel pumps-On Transponder-Alt Takeoff briefing-Completed

AFTER TAKEOFF
Gear-Up Flap-Up Cruise climb-105Kt Throttle-25" Prop-2500 RPM Fuel pumps-Off Mixture-Set Engine temp.-Monitor Cowl flap-As required

DESCENT
Altimeter-Set Fuel selector-On Cowl flap-Closed Power-As required

BEFORE LANDING
Seat belt-Fastened Fuel selector-On Mixture-Rich Fuel pumps-On Auto pilot-Off Landing light-As required Gear-Down Flap-As required Prop-High RPM GUMPS Normal landing-80 Kt Short field-75Kt

AFTER LANDING
Flap-Retract Fuel pumps-Off Landing light-Off Cowl flap-Open Mixture-Lean for taxi Trim-Set for takeoff Transponder-Stand by

SHUT DOWN
Parking brake-Set Avionics-Off Electrical switch-Off Propeller-High RPM Throttle-1000 RPM Mixture-Idle cut-off Magnetos-Off Battery switch-Off Alternators-Off Control lock-Set Parking brake-Off Tie downs-Secure

V SPEEDs	
Vmc-Red line	56 Kt
Vyse-Blue line	88 Kt
Vxse	82 Kt
Vsse	82 Kt
Vy	88 Kt
Vx	82 Kt
Vso	55 Kt
Vs1	57 Kt
Va	135 Kt
Vno	169 Kt
Vne	202Kt
Vle	140Kt
Vfe	111Kt

EMERGENCIES**ENGINE OUT PROCEDURE**

- 1 Maintain heading-Rudder and bank
- 2 Maintain Vyse(88 Kt)
- 3 Mixture-Both rich
- 4 Prop-Both high RPM
- 5 Throttle-Both open
- 6 Flap-Up
- 7 Gear-up
- 8 Identify dead engine-Dead foot, dead engine
- 9 Verify dead engine-Dead engine throttle-close
- 10 Check altitude
 - below 2000' AGL-Feather and secure
 - above 2000' AGL-Trouble shoot

- Engine gauge-Check
- Fuel pump-On
- Fuel selector-X feed
- Primer-Lock
- Carb heat-On
- Magnetos-Check
- if still dead-**Feather and secure**

SECURE DEAD ENGINE

- 1 Fuel pump-Off
- 2 Mixture-Idle cut-off
- 3 Fuel selector-Off
- 4 Magneto-Off
- 5 Alternator-Off
- 6 Carb heat-Off
- 7 Cowl flap-Close
- 8 Good engine cowl flap-Open
- 9 Electrical load-Monitor, reduce
- 10 Fuel management-Cross feed as needed

EMERGENCIES**RESTARTING INOPERATIVE ENGINE**

- 1 Fuel selector-On
- 2 Magneto-On
- 3 Mixture-Rich
- 4 Propopeller-High RPM
- 5 Throttle-One inch open
- 6 Fuel pump-On
- 7 Starter-Engage
- 8 After start-15" MP and 2000RPM
- 9 Oil pressure -Check
- 10 Alternator-On
- 11 Adjust cowl flap
- 12 Fuel pump-Off

CROSS FEED

- 1 Fuel pump-On
- 2 Receiving side-Cross feed
- 3 Sending side-Off
- 4 Fuel pump-Off

SINGLE ENGINE LANDING

- 1 Dead engine-Feather
- 2 Approach-As normal
- 3 Airspeed-Blue line until on final
- 4 Gear-Up until landing assured
- 5 Flap-Up until final
- 6 GUMPS

EMERGENCIES**SINGLE ENGINE GO AROUND**

- 1 Mixture-Rich
- 2 Propeller-High RPM
- 3 Throttle-Open
- 4 Gear-Up
- 5 Flap-Retract
- 6 Airspeed-Blue line
- 7 Slight bank into good engine

ENGINE FIRE(Ground)

- 1 Mixture-Idle cut-off
- 2 Continue to crank
- 3 Throttle-Open
- 4 Fuel selector-Off
- 5 Electrical pump-Off

ENGINE FIRE(In Flight)

- 1 Mixture-Idle cut-off
- 2 Fuel selector-Off
- 3 Propeller-Feather
- 4 Fuel pump-Off
- 5 Magneto-Off
- 6 Alternator-Off
- 7 Good engine-Full power
- 8 Shallow dive to blow out the fire

ELECTRICAL FIRE IN FLIGHT

- 1 Battery switch-Off
- 2 Air vent-Open
- 3 Cabin heat-Off
- 4 Land as soon as possible

EMERGENCIES**LANDING GEAR EMERGENCY EXTENSION**

- 1 Master switch-On
- 2 Circuit breaker-Check in
- 3 Nav light-Off
- 4 Airspeed-Below 100 Kt
- 5 Landing gear handle-Down
- 6 Manual ext. lever-Pull and fishtail
- 7 Green light-Check

WARNING

After emergency landing gear extension, do not move any landing gear controls or reset circuit breakers until airplane is on jacks.

PROP OVER SPEED

- 1 Throttle-Closed
- 2 Airspeed-100Kt
- 3 Propeller-Low RPM
- 4 Slowly open throttle until governor is engaged
- 5 Slowly increase prop and throttle to desired setting
- 6 Continue flight at reduced speed and power

RUNAWAY ELECTRICAL TRIM

- 1 Apply control pressure as needed for attitude control
- 2 Trim interrupt-Depress
- 3 Trim-Set

LOSS OF OIL PRESURE

- 1 Throttle-Closed
- 2 Mixture-Idle cut-off
- 3 Propeller-Feather
- 4 Secure engine and continue flight