

PIPER SEMINOLE

PA44-180

CHECKLIST



NICE AIR

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, Trinon-Check

NOSE SECTION

Landing light-Check
Well door, Tire, Strurt-Check
Window shield-Crean

LEFT WING

Cowl flap-Check
Tire, Brake, Strut, Trinon-Check-
Engine oil-Check
Engine air intake-Check
Propeller-Check

Engine cowl and door-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, Tubs-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 braker-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

STARTING ENGINE**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

RIGHT ENGINE

Repeat above
 Mixture-Lean for taxi
 Storobo light-On
 Radio-On
 Transponder Stand by

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

DESCEND

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-SPEED

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 Propeller-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 braker-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 brakers 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