

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
 Navigation 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, Trunnion
 Check

NOSE SECTION

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

LEFT WING

Cowl flap Check
 Tire, Brake, Strut, Trunnion
 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
 Stabilizer Check
 Tail cone Check
 Tie down Remove

RIGHT FUSELAGE

Drain(2) Check
 Baggage door Close

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

PRE START

Seat Adjust and lock
 Belt,harness Fastened
 Brake Set
 Circuit breakers..... In
 Landing gear handle Down
 Avionics..... Off
 Cowl flap Open
 Fuel selector On
 Carburetor 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
 Strobe light..... On
 Radio On
 Transponder Alt

TAXING

Parking brake..... Off
 Brake Check
 X feed Check
 Flight instruments Check

RUNUP

Parking brake..... Set
 Cowl flap Open
 Fuel selector On
 Mixture Rich
 Prop High RPM
 Throttle..... 1500 RPM
 Prop Feather
 Throttle..... 2000 RPM
 Prop Exercise
 Magnetos Check
 Max drop 175/50 diff.
 Carburetor heat..... Check
 Alternator Check
 Suction 4.8 to 5.2 in-hg
 Engine gauge..... Green
 Annunciator panel..... Check
 Throttle..... 1000 RPM
 Flight instrument Check
 Flight control Free and correct
 Flap Check
 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
 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

CRUISE

Power..... Set
 Trim Set
 Mixture Adjust
 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
 Landing light As required
 Gear Down
 Flap As required
 Prop High RPM
 GUMPS

Normal landing..... 80 Kt
 Short field..... 75Kt

AFTER LANDING

Flap Retract
 Landing light Off
 Fuel pumps Off
 Mixture Lean for taxi
 Cowl flap Open
 Trim Set for takeoff

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

EMERGENCIES**ENGINE OUT PROCEDURE**

Heading Rudder and bank
 Airspeed Vyse(88 Kt)
 Mixture Both rich
 Prop Both high RPM
 Throttle..... Both open
 Flap..... Up
 Gear..... Up
 Identify dead engine Dead foot, dead engine
 Verify dead engine Dead engine throttle-close

Check altitude

-below 2000' AGL..... Feather and secure
 -above 2000' AGL..... Trouble shoot

-Dead engine throttle Open 1 "
 -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

Dead Engine Feather
 Fuel pump..... Off
 Mixture Idle cut-off
 Fuel selector Off
 Magneto Off
 Alternator Off
 Carb heat Off
 Cowl flap Close
 Good engine cowl flap Open
 Electrical load Monitor, reduce
 Fuel management..... Cross feed as needed

EMERGENCIES**RESTARTING INOPERATIVE ENGINE**

Fuel selector On
 Magneto On
 Mixture Rich
 Propeller High RPM
 Throttle..... One inch open
 Fuel pump..... On
 Starter Engage
 After start 15" MP and 2000RPM
 Oil pressure Check
 Alternator On
 Cowl flap Adjust
 Fuel pump..... Off

CROSS FEED

Fuel pump..... On
 Receiving side Cross feed
 Sending side Off
 Fuel pump..... Off

SINGLE ENGINE LANDING

Dead engine Feather
 Approach As normal
 Airspeed..... Blue line until on final
 Gear..... Up until landing assured
 Flap..... Up until final
 GUMPS

EMERGENCIES***SINGLE ENGINE GO AROUND***

Mixture Rich
 Propeller High RPM
 Throttle Open
 Gear Up
 Flap Retract
 Airspeed Blue line
 Slight bank into good engine

ENGINE FIRE(Ground)

Mixture Idle cut-off
 Starter Continue to crank
 Throttle Open
 Fuel selector Off
 Electrical pump Off

ENGINE FIRE(In Flight)

Mixture Idle cut-off
 Fuel selector Off
 Propeller Feather
 Fuel pump Off
 Magneto Off
 Alternator Off
 Good engine Full power
 Shallow dive to blow out the fire

ELECTRICAL FIRE IN FLIGHT

Battery switch Off
 Air vent Open
 Cabin heat Off
 Land as soon as possible

EMERGENCIES***LANDING GEAR EMERGENCY EXTENSION***

Master switch On
 Circuit breaker Check in
 Navigation light Off
 Airspeed Below 100 Kt
 Landing gear handle Down
 Manual ext. lever Pull and fishtail
 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

Throttle Closed
 Airspeed 100Kt
 Propeller Low RPM
 Throttle Open Slowly until governors is engaged
 Prop Slowly increase and throttle to desired setting
 Continue flight At reduced speed and power

RUNAWAY ELECTRICAL TRIM

Apply control pressure as needed for attitude control
 Trim interrupt Depress
 Trim Set

LOSS OF OIL PRESSURE

Throttle Closed
 Mixture Idle cut-off
 Propeller Feather
 Secure engine and continue flight