



Piper PA-28 (N4583R) Checklist

PREFLIGHT

ENGINE START / TAXI

WHEELS UP / FLYING

AFTER LANDING / SHUTDOWN

Published Speeds	MPH / KIAS
Vr.....	55 / 48
Vx.....	76 / 66
Vy.....	86 / 75
Vso.....	81 / 70
Vs1.....	68 / 59
Best Glide (gross weight).....	79 / 69
Va (gross weight).....	115 / 100

INITIAL

Hobbs Meter Time.....	Recorded
WX & Density Altitude.....	Complete
Weight and Balance.....	Calculated
Performance Req.....	Calculated
A.R.O.W.....	Checked
Checklist.....	Complete

PREFLIGHT INSPECTION

Fuel Selector.....	FULLEST TANK
Control Lock.....	Removed
Magnetos.....	OFF
Master Battery Switch.....	ON
Fuel Gauges.....	Checked
Exterior/Cockpit Lights.....	Checked/Off
Stall Warning Light.....	Checked
Pitot Heat.....	ON
Flaps.....	DOWN
Master Battery Switch.....	OFF
Circuit Breakers.....	In/Checked
Mixture.....	IDLE CUT OFF
Checklist.....	Complete

PREFLIGHT INSPECTION (CONTINUED)

RIGHT WING

Flap.....	Checked
Aileron.....	Checked
Wing Tip.....	Checked
Tie Down.....	Removed
Visually Check Fuel Level.....	Full Tank
Fuel Tank Sump.....	Drained/Checked
Tire/Brakes.....	Checked
Air Inlet.....	Clear

NOSE

Windshield.....	Clean
Cowling.....	Checked
Oil level.....	7 qts (5 min)
Air Filter.....	Clean
Propeller/Spinner.....	Checked
Nose Gear/Strut/Tire.....	Checked
Engine Fuel Sump.....	Drained/Checked

LEFT WING

Air Inlet.....	Clear
Tire/Brakes.....	Checked
Fuel Tank Sump.....	Drained/Checked
Visually Check Fuel Level.....	Full Tank
Fuel Vent.....	Clear of Obstructions
Pitot Tube/Static Port.....	Clear of Obstructions
Tie Down.....	Removed
Wing Tip.....	Checked
Aileron.....	Move in direction of Travel
Flap.....	Checked

FUSELAGE

Antennas.....	Checked
Empennage.....	Checked
Tie Down.....	Removed
Elevator/Rudder/Trim tab.....	Checked

BEFORE STARTING ENGINES

Preflight Inspection.....	Complete
Passenger Brief.....	Complete
Seatbelts.....	Secure
Circuit Breakers.....	IN
Avionics.....	OFF
Carb Heat.....	OFF
Master Battery Switch.....	OFF
Fuel Selector.....	FULLEST TANK
Parking/Toe Brakes.....	Set/Hold
Checklist.....	Complete

STARTING ENGINES

Mixture.....	RICH
Carb Heat.....	OFF
Primer.....	As Req.
Throttle.....	1/8" open
Strobes/Beacon.....	ON
Master Battery Switch.....	ON
Fuel Pump.....	ON
Magneto Switch.....	BOTH
Propeller area.....	CLEAR
Ignition.....	PUSH START
Throttle.....	1000 rpm
Ammeter/Voltmeter.....	Approx. 0/14
Oil Pressure.....	Green
Fuel Pump.....	OFF
Mixture.....	Lean
Checklist.....	Complete

BEFORE TAXI

Avionics.....	ON
Flaps.....	UP
Lights.....	As Req.
ATIS/AWOS.....	Record
Altimeter.....	SET
Heading Indicator.....	Set to Compass
Clearance Delivery.....	Obtain
Transponder.....	SET/STANDBY
Ground Taxi Clearance.....	Obtain
Brakes.....	Release
Checklist.....	Complete

TAXI

Brake.....Test
Turn and Slip Indicator.....Move in Direction of Travel
Inclinometer.....Opposite Direction of Travel
Heading Indicator.....Move in Direction of Travel
Checklist.....Complete

GROUND ENGINE RUN UP

Parking/Toe Brakes.....Set/Hold
Fuel Selector.....FULLEST TANK
Flight Controls.....Free and Correct
Mixture.....RICH
Elevator Trim.....Take Off
Engine Gauges.....Green
Throttle.....2000 rpm
Magneto R/L.....125 rpm drop/50 diff
Carb Heat.....rpm drop
Ammeter/Voltmeter.....Approx. 0/14
Suction Gauge.....5" Hg
Throttle to Idle.....oil pressure/rpm check
Throttle to 1000 rpm.....oil pressure/rpm check
Checklist.....Complete

BEFORE TAKEOFF

Departure Brief.....Complete
Doors/Windows.....Closed/Locked
Seatbelts.....Secured
Flaps.....As Req.
Mixture.....RICH
Fuel Pump.....ON
Fuel Selector.....SWITCH TO FULLEST TANK
Trim.....Set for Take Off
Transponder.....ALT
Lights.....As Req.
Checklist.....Complete

TAKE OFF

Throttle.....Full
Engine Gauges.....Green
Rotate (Vr).....55 mph/48 KIAS
Climb (Vx /Vy).....76-86 mph/66-75 KIAS
Flaps.....Up
Checklist.....Complete

CLIMB (1000 MSL)

Climb Power.....SET
Airspeed.....86-100 mph/75-87 KIAS
Mixture.....Lean as Req.
Engine Instruments.....Green
Lights.....As Req.
Checklist.....Complete

CRUISE

Cruise Power.....2000-2500 rpm
Fuel Selector.....SWITCH TO FULLEST TANK
Fuel Pump.....OFF
Mixture.....Lean as Req.
Trim.....Adjust
Carb Heat.....On below 2000 rpm
Engine Instruments.....Green
Heading Indicator.....Set to Compass
Checklist.....Complete

DESCENT/INBOUND FOR LANDING

Heading Indicator.....Set to Compass
Fuel Pump.....ON
Fuel Selector.....SWITCH TO FULLEST TANK
Mixture.....As Req.
Throttle.....As Req.
Carb Heat.....As Req.
ATIS/AWOS.....Record
Altimeter.....SET
Transponder.....SET/ALT
Checklist.....Complete

BEFORE LANDING

Approach Briefing.....Complete
Carb Heat.....As Req.
Fuel Pump.....ON
Mixture.....RICH
Seat belts.....Secure
Landing Lights.....ON
Flaps.....As Req.
Checklist.....Complete

LANDING

Below 100 mph (white arc).....Flaps as Needed
Airspeed.....68 mph/59 KIAS
Touchdown.....Main Wheels
Landing Roll.....Lower nose gently
Braking.....Minimum Req.
Checklist.....Complete

MISSED APPROACH / GO AROUND

Throttle.....FULL
Carb Heat.....OFF
Flaps.....Retract as Req.
Checklist.....Complete

AFTER LANDING

Flaps.....Retract
Carb heat.....OFF
Mixture.....LEAN
Fuel Pump.....OFF
Transponder.....Standby
Lights.....As Req.
Trim.....Set for Take Off
Frequency Change.....As Req.
Checklist.....Complete

SECURING

Parking/Toe Brakes.....Set
Avionics.....OFF
Lights/Strobe.....OFF
Throttle.....1000 rpm
Mixture.....IDLE CUT OFF
Magnetos.....OFF
Master Battery Switch.....OFF
Hobbs Time.....Record
Control Lock.....Install
Rudder Gust Lock.....Install
Clean Aircraft.....Complete
Seat Belts.....Secure
Cabin Doors/Windows.....Closed
Tie Down.....Install
Pitot Tube Cover.....Install
Checklist.....Complete



Piper PA-28 (N4583R) Emergency Checklist

ENGINE FIRE DURING START

CrankingContinue

IF ENGINE START

Power.....2000 rpm
Engine.....Shutdown/Inspect

IF NO START

Cranking.....Continue
Fuel Shut Off.....OFF
Mixture.....IDLE-CUT OFF
Fuel Selector.....OFF
Magnetos.....OFF
Master Battery Switch.....OFF
Fire Extinguisher.....Obtain
Aircraft.....Evacuate
Checklist.....Complete

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....IDLE
Brakes.....Apply
Flaps.....Retract
Mixture.....IDLE-CUT OFF
Fuel Selector.....OFF
Magnetos.....OFF
Master Switch.....OFF
Checklist.....Complete

ENGINE FAILURE AFTER TAKE OFF

Airspeed.....75 mph/65 KIAS
Throttle.....IDLE
Below 500'.....Land on remaining runway
No Runway.....Suitable Landing Site
Mixture.....IDLE-CUT OFF
Fuel Selector.....OFF
Magnetos.....OFF
Master Battery Switch.....OFF
Checklist.....Complete

ENGINE FAILURE IN FLIGHT

Airspeed.....79 mph/69 KIAS
Mixture.....RICH
Fuel Pump.....ON
Carb Heat.....ON
Magnetos.....ON
Master Battery Switch.....ON
Primer.....In/Locked
Fuel Selector.....BOTH
Engine.....RESTART
Checklist.....Complete

FORCED LANDING

Airspeed.....79 mph/69 KIAS
Landing Site.....Note Wind Direction
Squawk.....7700
Declare Emergency.....Freq. 121.5
Fuel Pump.....OFF
Mixture.....IDLE-CUT OFF
Fuel Selector.....OFF
Magnetos.....OFF
Flaps.....As req.
Master Battery Switch.....OFF
Seatbelt/Harness.....Secured
Doors.....Unlatch
Checklist.....Complete

ENGINE FIRE IN FLIGHT

Mixture.....IDLE-CUT OFF
Fuel Pump.....OFF
Fuel Selector.....OFF
Master Battery Switch.....OFF
Cabin Heat and Air.....OFF
Airspeed.....Increase to Extinguish
Forced Landing.....Execute
Checklist.....Complete

ELECTRICAL FIRE

Master Battery Switch.....OFF
All Electrical Switches.....OFF
Vents.....CLOSED
Fire Extinguisher.....Activate

IF FIRE IS OUT

Avionics.....OFF
Circuit Breakers.....Check
Master Battery Switch.....ON
Avionics.....ON
Radio/Electrical.....ON
Vents.....OPEN
Checklist.....Complete

CABIN FIRE

Master Battery Switch.....OFF
Vents.....CLOSE
Fire Extinguisher.....Activate
Land.....ASAP
Checklist.....Complete

WING FIRE

Navigation lights.....OFF
Landing/Taxi Lights.....OFF
Strobe Lights.....OFF
FORWARD SLIP WITH WING FIRE SIDE DOWNWIND
Checklist.....Complete

ALTERNATOR OVER VOLTAGE

IF VOLTMETER READS 16V OR GREATER:

Alternator Circuit Breaker.....Checked
Non-essential Electrical Equipment.....OFF
Flight.....TERMINATE
Checklist.....Complete

ALTERNATOR FAILURE

IF AMMETER SHOWS DISCHARGE & VOLTMETER READS 12V OR LESS:

Alternator Circuit Breaker.....Checked
IF EARLIER STEPS DO NOT RESOLVE PROBLEM:
Non-essential electrical equipment.....OFF
Flight.....TERMINATE
Checklist Complete

ICING

Carburetor.....Heat
Cabin heat.....As req.
Defroster Outlets.....Open
Engine rpm.....Increase
Altitude/Heading.....Adjust
Mixture.....Lean
Flight.....TERMINATE
Airspeed.....75 mph/65 KIAS
Touchdown.....Level Attitude
Flaps.....Not Recommended
Checklist.....Complete

COMMUNICATIONS FAILURE

Radio check.....Confirm
Frequency.....Verify
Circuit Breakers.....Check
Voltage Regulator.....ON

IF YOU CAN HEAR ATC (Controlled Airport)

Squawk 7600
Follow Verbal Instructions
Look for Light Gun Signals
Enter Normal Traffic Pattern
Upon Landing, call tower

IF YOU CANNOT HEAR ATC (Controlled Airport)

Squawk 7600
Look for Light Gun Signals
Enter Traffic Pattern like Normal
Upon Landing, call tower
Checklist.....Complete

LANDING WITH FLAT MAIN TIRE

Approach.....Normal
Flaps.....As Desired
Touchdown.....Good Tire First
Checklist.....Complete

WATER DITCHING

Radio.....Freq. 121.5
Squawk.....7700
Heavy Objects.....Secure/Jettison
Flaps.....30 Degrees
Descend.....300 fpm
Cabin Door.....Unlatch

HIGH WINDS/HEAVY SEAS

Land into the wind

LIGHT WINDS/HEAVY SWELLS

Land parallel to swells

Airplane.....Evacuate
Life vest/raft.....Inflate
Checklist.....Complete