



## Piper PA-28 (N4216T) Checklist

### PREFLIGHT

### ENGINE START / TAXI

### WHEELS UP / FLYING

### AFTER LANDING / SHUTDOWN

Published Speeds	MPH / KIAS
Vr.....	60 / 52
Vx.....	74 / 64
Vy.....	85 / 74
Vso.....	57 / 50
Vs1.....	67 / 58
Best Glide (gross weight).....	80 / 70
Va (gross weight).....	129 / 112

### 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
Flaps.....	DOWN
Exterior/Cockpit Lights.....	Checked/Off
Stall Warning Light.....	Checked
Pitot Heat.....	Checked/Off
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.....	6-8 qts (min 5 qts)
Air Filter.....	Clean
Propeller/Spinner.....	Checked
Nose Gear/Strut/Tire.....	Checked
Engine Fuel Sump.....	Drained/Checked

#### LEFT WING

Air Inlet.....	Clear
Tire/Brakes.....	Checked
Visually Check Fuel Level.....	Full Tank
Fuel Tank Sump.....	Drained/Checked
Fuel Vent.....	Clear of Obstructions
Pitot Tube.....	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
Right side Static Port.....	Clear of Obstructions

### BEFORE STARTING ENGINES

Preflight Inspection.....	Complete
Passenger Brief.....	Complete
Seatbelts.....	Secure
Circuit Breakers.....	IN
Avionics.....	OFF
Carb Heat.....	OFF
Battery/Alternator Switch.....	OFF
Strobes/Beacon Switch.....	ON
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
Battery/Alternator Switch.....	ON
Strobes/Beacon 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 T/O  
Transponder.....ALT  
Lights.....As Req.  
Checklist.....Complete

### TAKE OFF

Throttle.....Full  
Engine Gauges.....Green  
Rotate (Vr).....60 mph/52 KIAS  
Climb (Vx /Vy).....74-85 mph/64-74 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  
Engine Instruments.....Green  
Heading Indicator.....Set to Compass  
Checklist.....Complete

### DESCENT / INBOUND FOR LANDING

Approach Briefing.....Complete  
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

Fuel Pump.....ON  
Mixture.....RICH  
Carb Heat.....As Req.  
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/EFIS.....OFF  
Lights/Strobe.....OFF  
Throttle.....1000 rpm  
Mixture.....IDLE CUT OFF  
Magnetos.....OFF  
Battery/Alternator 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 (N4216T) Emergency Checklist

### ENGINE FIRE DURING START

Cranking .....Continue

#### 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.....FULLEST TANK  
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