

# N15417 Piper PA28-180 Quick Reference Checklist



## PREFLIGHT

<b>CABIN</b>	
Hobbs/Tach	RECORDED
Required Documents (AROW/ PMID)	ABOARD
Parking Brake	SET
Control Wheel Lock	REMOVE
Flight Controls	FREE / CORRECT
Ignition Switch	OFF
Elevator Trim	NEUTRAL
Mixture	OFF
Throttle	CLOSED
Electrical Switches	OFF
Master Switch	Prop Area Clear-ON
Pitot Tube Heat	ON / CHECK WARM WITHIN 30 SEC
Pitot Heat	OFF
Lights (Int./Nav/Strobes/Beacon/Landing/Taxi)	ON / CHECK / OFF
Fuel Quantity	CHECK
Fuel Tank Selector Valve	SET TO LOWEST TANK
Master Switch	OFF
Wing Flaps	FULLY EXTEND
Windows / Windshield	CHECK / CLEAN
<b>RIGHT WING</b>	
Aileron and Flap	CHECK
Wing Tip	CHECK
Leading Edge	CHECK
Fuel Quantity	CHECK
Fuel Filler Cap	SECURE
Fuel Tank Vent	CLEAR
Fuel Tank Sump	DRAIN / CHECK
Main Wheel Tire and Brake	INFLATION / CONDITION CHECK
Wing Tie Down	REMOVE
Overall Condition	CHECK
<b>NOSE</b>	
Oil (6-8 Quarts)	CHECK
Oil Dip Stick / Lid	SECURE / CLOSED
Cowling	CHECK / SECURE
Propeller and Spinner	CHECK
Alternator Belt	CHECK
Air / Cooling Inlets	CLEAR
Air Filter	CHECK
Nose Wheel Tire and Strut	INFLATION / CONDITION CHECK
Fuel Strainer Sump (Left Side)	DRAIN / CHECK
<b>LEFT WING</b>	
Main Wheel Tire and Brake	INFLATION / CONDITION CHECK
Fuel Tank Sump	DRAIN / CHECK
Fuel Tank Vent	CLEAR
Fuel Quantity	CHECK
Fuel Filler Cap	SECURE
Leading Edge	CHECK
Pitot / Static	COVER OFF / CLEAR
Stall Warning Vane	CHECK
Wing Tie Down	REMOVE
Wing Tip	CHECK

## PREFLIGHT – continued

<b>LEFT WING – cont.</b>	
Aileron and Flap	CHECK
Overall Condition	CHECK
<b>FUSELAGE – LEFT SIDE</b>	
Overall Condition	CHECK
Antennas	CHECK
<b>EMPENNAGE</b>	
Stabilator	CHECK
Trim Tab	CHECK
Rudder	CHECK
Vertical Stabilizer	CHECK
Tail Tie Down	REMOVE
<b>FUSELAGE – RIGHT SIDE</b>	
Overall Condition	CHECK
Baggage Compartment	INSPECT
Baggage Door	CLOSED / SECURE
<b>FINAL 360° WALKAROUND</b>	COMPLETE

## BEFORE STARTING ENGINE

Preflight Inspection	COMPLETE
Passengers	BRIEFED
Seats and Seat Belts	SECURE
Parking Brake	SET
Fuel Selector Valve	LOWEST TANK
Avionics and Electrical Switches	OFF
Circuit Breakers	CHECK ALL IN

## STARTING ENGINE

Carb Heat	COLD
Mixture	RICH
Throttle	OPEN ¼"
Prime	1-3 STROKES / LOCKED
Propeller Area	CLEAR
Key	INSERT
Master Switch	ON
Strobes	ON
Fuel Pump	ON
Ignition Switch	START
Throttle	ADJUST TO 1000 RPM
Oil Pressure*	CHECK-GREEN
Fuel Pump	OFF
Fuel Pressure	CHECK

\*If not in green within 30 seconds shutdown the engine to prevent further damage to engine.

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PRE TAXI	
Avionics Master Power Switch	ON
Navigation / Strobe Lights	ON AS REQUIRED
Ammeter	NORMAL CHARGE
Wing Flaps	RETRACTED TO 0°
Mixture	LEAN FOR TAXI
Avionics	ON / SET
ATIS/Weather	OBTAINED
Altimeter	SET
Transponder (1200 or assigned code)	CODE SET / ON ALT
Brakes	TEST

TAXIING	
Compass	FULL OF FLUID / SWINGING FREELY
Gyro Instruments / Turn Coordinator	PROPER INDICATION
Controls	POSITION FOR WIND

BEFORE TAKEOFF	
Parking Brake	SET
Flight Controls	FREE/CORRECT
Elevator Trim Control Wheel	TAKE-OFF POSITION
Fuel Pump	ON
Fuel Selector Valve	SWITCH TO FULLEST TANK
Fuel Pump	OFF
Mixture	RICH
Brakes	HOLD
Throttle	1800 RPM
Magnetos (125 max drop /max 50 differential)	(R/Both/L/Both) / CHECK
Carb Heat	CHECK OPERATION
Engine Instruments and Ammeter	CHECK
Vacuum Suction	4.6-5.4"
Throttle	IDLE
Engine Gauges and Idle RPM	CHECK
Throttle	1000 RPM
Throttle Friction	AS REQUIRED
Heading Indicator	SET / CHECK
Flight Instruments and Radios	SET / CHECK
Wing Flaps	SET FOR TAKEOFF 0°
Cabin Doors and Windows	CLOSED AND LOCKED
Seats and Seat Belts	LOCKED / SECURE
Pre-Takeoff Briefing	COMPLETED
Transponder	ON ALT
Strobes	ON
Parking Brake	RELEASE

TAKEOFF - NORMAL	
Fuel Pump	ON
Landing Light	ON
Wing Flaps	0°
Elevator Trim Control Wheel	TAKEOFF POSITION
Carb Heat	COLD
Mixture	RICH or ABOVE 3000' MSL LEANED MAX RPM at FULL THROTTLE STATIC RUNUP
Throttle	FULL OPEN
Engine Instruments	GREEN / NORMAL LIMITS
Elevator Control	LIFT NOSE WHEEL AT 60 MPH (52 KIAS)
Climb Speed (Vy)	85 MPH (74 KIAS)

TAKEOFF – SHORT FIELD	
Fuel Pump	ON
Landing Light	ON
Wing Flaps	25°
Elevator Trim Control Wheel	TAKEOFF POSITION
Carb Heat	COLD
Mixture	RICH or ABOVE 3000' MSL LEANED MAX RPM at FULL THROTTLE STATIC RUNUP
Brakes	HOLD FIRMLY
Throttle	FULL OPEN
Engine Instruments	GREEN / NORMAL LIMITS
Brakes	RELEASE
Elevator Position	SLIGHTLY TAIL LOW
Climb Speed (Vx)	74 MPH (65 KIAS)
Wing Flaps	when at safe altitude and clear of obstacles RETRACT
Climb Speed (Vy)	85 MPH (74 KIAS)

AFTER TAKEOFF	
Airspeed	85 MPH (74 KIAS)
Wings Flaps	0°
Power	FULL THROTTLE
Engine Instruments	CHECK

ENROUTE CLIMB	
Airspeed	100 MPH (87 KIAS)
Power	FULL THROTTLE
Fuel Pump	OFF
Engine Instruments and Fuel Pressure	CHECK
Mixture	RICH / MAY BE LEANED >3000'

CRUISE	
Power	2200 to 2700 RPM
Mixture	LEANED FOR MAX RPM
Elevator Trim Control Wheel	ADJUST
Landing Light	OFF

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## PRE-DESCENT

ATIS/Airport Weather	OBTAINED
Altimeter Setting	CHECK
Radios / Navigation	SET
Airport Information	REVIEW

## DESCENT

Mixture	ENRICHEN / RICH <3000'
Power	AS DESIRED
Engine Instruments and Fuel Pressure	CHECK

## BEFORE LANDING

Seats & Seat Belts	LOCKED / SECURE
Landing Light	ON
Fuel Pump	ON
Engine Instruments and Fuel Pressure	CHECK
Primer	IN and LOCKED
Fuel Selector Valve	FULLEST TANK
Mixture	FULL RICH

## LANDING - NORMAL

Flaps	AS DESIRED
Airspeed	FLAPS DN 80-85 MPH (70-74 KIAS)
Touchdown	MAIN WHEELS FIRST
Braking	AS REQUIRED

## LANDING - SHORT FIELD

Flaps	INSIDE WHITE ARC / 40°
Airspeed	FLAPS DN 70-75 MPH(61-65 KIAS)
Touchdown	MAIN WHEELS
Nosewheel	LOWER IMMEDIATELY
Braking	APPLY HEAVILY
Flaps	RETRACT
Elevator	HOLD FULL NOSE UP

## BALKED LANDING (GO AROUND)

Throttle	FULL THROTTLE
Carb Heat	COLD
Flaps	RETRACT to 20°
Airspeed	74 MPH (65 KIAS)
Upon Reaching 65 KIAS AND After Clearing Obstacles - Retract Flaps Slowly to 0°	
Climb	85 MPH (74 KIAS)

## AFTER LANDING

Flaps	RETRACTED TO 0°
Carb Heat	COLD
Landing Light	OFF or AS NECESSARY
Fuel Pump	OFF
Strobes	ON DAY / OFF NIGHT
Mixture	LEAN AS REQUIRED

## SHUTDOWN

Parking Brake	SET
Avionics Master	OFF
Throttle	IDLE
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Electrical Equipment.	OFF
Master Switch	OFF
Control Wheel Lock	INSTALL
Aircraft	SECURED
360° Post Flight Inspection	COMPLETE

**END OF NORMAL PROCEDURES**

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## ENGINE FAILURE (DURING TAKEOFF ROLL)

Throttle	IDLE
Brakes	APPLY
Wing Flaps	RETRACT
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Radio Call	AFTER BRINGING AIRCRAFT TO STOP NOTIFY ATC or CTAF
Master Switch	OFF

## ENGINE FAILURE (IMMEDIATELY AFTER TAKEOFF)

Airspeed	FLAPS UP 82 MPH (71 KIAS) FLAPS DN 70 MPH (61 KIAS)
Mixture	IDLE CUT OFF
Fuel Selector Valve	OFF
Ignition Switch	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF
Seats and Seat Belts	LOCKED / TIGHT
Cabin Door	UNLATCH PRIOR TO TOUCHDOWN
Land	STRAIGHT AHEAD
Brakes	APPLY AS NECESSARY

## ENGINE FAILURE DURING FLIGHT (Sufficient Altitude Remaining)

Airspeed	82 MPH (71 KIAS)
Landing Site	SELECT and MANUEVER TO AS NECESSARY
Fuel Gauges	CHECK
Fuel Selector Valve	SWITCH TO TANK CONTAINING FUEL
Fuel Pump	ON
Mixture	RICH
Carb Heat	ON
Primer	IN & LOCKED
Ignition Switch	ON BOTH
Fuel Pressure	CHECK If no fuel pressure is indicated, check tank selector position to be sure it is on a tank containing fuel.
Carb Heat	if power is restored / OFF
Fuel Pump	if power is restored / OFF
<b>If Engine Power is not restored, complete Emergency Landing without Power checklist</b>	
Transponder	7700
Radio Call* (Mayday, Mayday, Mayday)	AS ABLE
*121.5 or Frequency in Use (if already in contact with ATC)	

## EMERGENCY LANDING W/O POWER

Airspeed	82 MPH (71 KIAS)
Mixture	IDLE CUT-OFF
Fuel Selector Valve	OFF
Ignition Switch	OFF
Flaps	AS NECESSARY
Airspeed	FLAPS UP 82 MPH (71 KIAS) FLAPS DN 70 MPH (61 KIAS)
Master Switch	OFF
Seats and Seat Belts	LOCKED / TIGHT
Cabin Door	UNLATCH
Touchdown	TAIL LOW
Brakes	APPLY HEAVILY
Elevator	HOLD FULL NOSE UP

## PRECAUTIONARY LANDING (With Power)

Airspeed	71 KIAS
Passenger Seat Backs	MOST UPRIGHT POSITION
Seats and Seat Belts	LOCKED / TIGHT
Wing Flaps	20°
Airspeed	61 KIAS
Selected Field	FLY OVER Noting terrain and obstructions, then retract flaps upon reaching a safe altitude and airspeed.
Wing Flaps	(inside White Arc) 40°
Airspeed	61 KIAS
Master Switch	OFF (When landing is assured)
Cabin Door	UNLATCH PRIOR TO TOUCHDOWN
Ignition Switch	TURN OFF before touchdown
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY
Elevator	HOLD FULL NOSE UP

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**FIRE DURING ENGINE START**

Cranking	CONTINUE
<b>IF ENGINE STARTS:</b>	
Power	1700RPM (2 min.)
Engine	SHUTDOWN AND INSPECT FOR DAMAGE
<b>IF ENGINE FAILS TO START:</b>	
Throttle	FULL OPEN
Mixture	IDLE CUT-OFF
Cranking	CONTINUE FOR 2-3 MINUTES
Fire Extinguisher	OBTAIN
Master and Ignition Switch	OFF
Fuel Selector Valve	OFF
Aircraft	EVACUATE
Fire Extinguisher	ACTIVATE INTO ENGINE COMPARTMENT IF SAFELY ABLE

**WING FIRE IN FLIGHT**

Navigation Light Switch	OFF
Strobe Light Switch	OFF
Pitot Heat Switch	OFF
Sideslip Airplane	Keep flames away from the fuel tank and cabin
Land Airplane	AS SOON AS POSSIBLE

**OTHER EMERGENCIES**

CONSULT THE POH FOR ADDITIONAL EMERGENCY PROCEDURES AND INFORMATION

**ENGINE FIRE IN FLIGHT**

Fuel Selector Valve	OFF
Throttle	CLOSED
Mixture	IDLE CUT-OFF
Cabin Heater	OFF
Defroster	OFF
Master Switch	OFF
Airspeed	115 MPH (100 KIAS)
Emergency Landing Site	SELECTED
Airspeed	INCREASE IF FIRE NOT EXTINGUISHED <b>DO NOT EXCEED V<sub>NE</sub></b>
<b>DO NOT ATTEMPT RESTART</b>	
Emergency Landing without Power	EXECUTE
Airspeed	FLAPS UP 82 MPH (71 KIAS) FLAPS DN 70 MPH (61 KIAS)
Cabin Door	UNLATCH
Touchdown	TAIL LOW
Brakes	APPLY HEAVILY
Elevator	HOLD FULL NOSE UP
After Landing	EVACUATE FROM AIRCRAFT TO A SAFE DISTANCE

**ELECTRICAL FIRE IN FLIGHT**

Master Switch	OFF
Avionics & Electrical Switches (except ignition)	OFF
Cabin Heat / Defrost / Air Vents	OFF/ CLOSED
Fire Extinguisher	ACTIVATE
Air Vents	OPEN AFTER FIRE IS OUT
<b>IF FIRE IS OUT AND ELECTRICAL POWER IS NEEDED:</b>	
Master Switch	ON
Circuit Breakers	CHECK
<b>DO NOT RESET CIRCUIT BREAKERS</b>	
Avionics and Electrical Switches	ON ONE BY ONE UNTIL SHORT CIRCUIT IS LOCALIZED