



NORMAL PROCEDURES CHECKLIST - PIPER ARCHER PA28 - 181

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A. BEFORE STARTING ENGINE

1. Flaps UP
2. Preflight COMPLETE
3. Passenger Briefing SAFETY
4. Seats & Seat Belts ADJUST & LOCK
5. Brake TEST
6. Parking Break SET
7. Circuit Breakers CHECK IN
8. Electrical Equipment OFF
9. Avionics Master Switch OFF
10. Carburetor OFF/COLD
11. Fuel Selector LOWEST TANK

B1. STARTING ENGINE WHEN COLD

1. Throttle OPEN $\frac{1}{4}$ "
2. Mixture RICH
3. Prime AS REQ (2 - 4)
4. Primer LOCK
5. Master Switch ON
6. Flashing Beacon ON
7. Navigation Lights AS REQ
8. Fuel Pump ON
9. Prop Area CLEAR
10. Starter START
11. Throttle 1000 RPMs
12. Oil Pressure CHECK
13. Fuel Pump OFF & CHECK PRESSURE
14. Ammeter POSITIVE CHARGE
15. Mixture LEAN FOR TAXI
16. Avionics Master ON

B2. STARTING ENGINE WHEN HOT

1. Throttle OPEN $\frac{1}{2}$ "
2. Mixture RICH
3. Primer LOCK
4. Master Switch ON
5. Flashing Beacon ON
6. Navigation Lights AS REQ
7. Fuel Pump ON
8. Prop Area CLEAR
9. Starter START
10. Throttle 1000 RPMs
11. Oil Pressure CHECK
12. Fuel Pump OFF & CHECK PRESSURE
13. Ammeter POSITIVE CHARGE
14. Mixture LEAN FOR TAXI
15. Avionics Master ON

B3. STARTING ENGINE WHEN FLOODED & WITH EXTERNAL POWER SOURCE

Check POH

C. AFTER START/BEFORE TAXI

1. Radios SET
2. AWOS/ATIS COPY
3. Flight Instruments CHECK
4. Transponder SQUAWK CODE
5. Taxi Plan BRIEF & DIAGRAM AVAILABLE
6. Taxi Area CLEAR
7. Parking Break OFF
8. Brakes/Steering TEST
9. Obtain Clearance AS REQUIRED
10. Flight Instruments CHECK ON TURNS

D. RUN UP

1. Parking Brake SET
2. Seat Backs UPRIGHT
3. Seats & Seat Belts CHECK SECURE
4. Cabin Doors CLOSED & LOCKED
5. Autopilot TEST THEN OFF
6. Flight Controls FREE & CORRECT
7. Flight Instruments CHECK
8. Fuel Quantity CHECK APPROPRIATE
9. Mixture AS REQ. / RICH
10. Fuel Selector SWITCH TANK
11. Primer LOCK
12. Throttle 2000 RPM
13. Magnetos BOTH > R > BOTH > L > BOTH
**Note RPM, max drop 175 & a difference of 50*
14. Carb Heat HOT
15. Engine Instruments CHECK
16. Vacuum CHECK
17. Ammeter CHECK W/LOAD
18. Annunciator Panel TEST & CHECK
19. Throttle CHECK IDLE
20. Throttle 1000 RPMs
21. Carb Heat COLD

E. BEFORE TAKEOFF

1. Throttle Friction Lock ADJUST
2. Flight Instruments CHECK & SET
3. Landing/Strobe Lights ON
4. Radios SET
5. Avionics SET
6. NAV/GPS SET
7. Transponder ALT
8. Autopilot OFF
9. Manual Electric Trim CHECK
10. Elevator Trim SET FOR T/O
11. Wing Flaps SET FOR T/O (0° - 25°)
12. Fuel Pump ON
13. Parking Brake RELEASE
14. Time NOTE



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BRIEF DEPARTURE / EMERGENCY / ABORT PLAN

F1. NORMAL TAKEOFF

1. Flaps UP
2. Mixture FULL RICH (below 5000')
3. Throttle FULL OPEN
4. Rotate 52 - 65 KIAS
5. Climb 76 KIAS

F2. SHORT FIELD TAKEOFF

1. Flaps 25°
2. Brakes APPLY
3. Mixture FULL RICH (below 5000')
4. Throttle FULL OPEN
5. Brakes RELEASE
6. Rotate 41 - 49 KIAS
7. Accelerate to 45 to 54 KIAS
8. Climb Speed 64 KIAS UNTIL CLEAR
9. Flaps 10°
10. Climb 76 KIAS
11. Flaps UP

G. ENROUTE CLIMB

1. Airspeed 87 KIAS
2. Flaps UP
3. Throttle FULL OPEN
4. Electric Fuel Pump OFF (1000' AGL)
5. Engine Instruments MONITOR

H. CRUISE

1. Power AS REQ. < 75%
2. Elevator Trim / Auto Pilot AS REQ.
3. Mixture LEAN PER POH
4. Landing Light OFF ABOVE 10,000'

I. PRE-MANEUVER

1. Clearing Turns SCAN FOR TRAFFIC
2. Heading Reference SET OUTSIDE & INSIDE
3. Altitude SAFE & BUG
4. Airspeed APPROPRIATE
5. Announce POSITION
6. Proper Configuration AS REQ.
7. Safe Place To Land VERIFIED

J. DESCENT

1. Fuel Selector PROPER TANK
2. Power AS REQUIRED
3. Mixture ADJUST
4. Radios SET
5. AWOS/ATIS COPY
6. Flight Instruments / NAV / GPS SET

K. BEFORE LANDING

1. Seats & Seat Belts SECURED
2. Fuel Selector PROPER TANK
3. Fuel Pump ON
4. Mixture RICH
5. Landing Light ON
6. Auto Pilot OFF

L1. NORMAL LANDING

1. Approach Airspeed 66 KIAS
2. Full Flaps BELOW 102 KIAS FULL
3. Touchdown MAIN WHEELS
4. Landing Roll NOSE DOWN GENTLY
5. Braking MINIMUM REQUIRED

L2. SHORT FIELD LANDING

1. Approach Airspeed 66 KIAS
2. Flaps FULL
3. Touchdown MAIN WHEELS
4. Flaps RETRACT
5. Braking MAX REQUIRED

M. GO AROUND

1. Throttle FULL OPEN
2. Flaps RETRACT TO 25°
3. Climb Speed 64 KIAS (until obstacle cleared)
4. Wing Flaps RETRACT TO 10°
5. Climb Speed 76 KIAS
6. Flaps RETRACT

N. AFTER LANDING

1. Clear The Runway & Clearance VERIFY
2. Flaps UP
3. Mixture LEAN FOR TAXI
4. Fuel Pump OFF
5. Landing/Strobe Light OFF
6. Trim SET T/O

O. SHUTDOWN/SECURING AIRPLANE

1. Parking Brake SET
2. Magnetos TEST GROUND
3. Electrical Equipment (Except Beacon) OFF
4. Avionics Master OFF
5. Mixture IDLE CUTOFF
6. Ignition Switch OFF WHEN PROP STOPS
7. Key OUT
8. Master Switch OFF
9. Control Lock INSTALL
10. Tach/Hobbs COPY
11. Chocks & Tie Downs CONNECT
12. Covers INSTALL
13. Flight Plan CLOSE