PIPER ARCHER III
PA-28-181
NORMAL PROCEDURES CHECKLIST

*This is to be used as a REFERENCE ONLY, it is not a substitute for the Airplane Flight Manual.
*Refer to AFM/POH for amplified procedures. User assumes all risk of use in using this product. User consents to and understands that American Flight Schools bears no liability for the use of this product.

Rotation Speed.....65	Vno.....125
Vy (SL).....76	Vne.....154
Vx (SL).....64	Best Glide.....76
Vso.....49	
Vs.....55	
Vfe.....102	
Va 113-89	Max T/O.....2550lbs
Max Xwind.....17	Max LND.....2550lbs

KAPA - Tower	118.9
KAPA - Ground	121.8
KAPA - ATIS	120.3
KAPA - Approach	132.75
KBJC - Tower	118.6
KBJC - Ground	121.7
KBJC - ATIS	126.25
KBJC - Approach	126.1
KFTG - Tower	120.2
KFTG - Ground	124.7
KFTG – ATIS	119.25
FSS	122.2

BEFORE STARTING ENGINE

1. Brakes.....SET
2. Circuit breakers.....CHECK IN
3. Alternate static source.....OFF
4. Carburetor heat.....full cold
5. Avionics.....OFF
6. Fuel selector.....desired tank
7. Passenger Briefing.....complete

NORMAL START- COLD ENGINE

1. Throttle.....¼ in. open
2. Battery master switch.....ON
3. Anti-Collision Lights.....ON
4. Alternator switch.....ON
5. Magnetos.....ON
6. Electric fuel pump.....ON
7. Prime.....As Necessary
8. Mixture.....SET
9. Propeller.....clear
10. Starter.....engage
11. Throttle.....adjust
12. Oil pressure.....check

NORMAL START- HOT ENGINE

1. Throttle.....1/2 in. open
2. Battery master switch.....ON
3. Alternator switch.....ON
4. Magnetos.....ON
5. Anti-Collison Lights.....ON
6. Electric fuel pump.....ON
7. Mixture.....SET
8. Propeller.....clear
9. Starter.....engage
10. Throttle.....adjust
11. Oil pressure.....CHECK

ENGINE START WHEN FLOODED

1. Throttle.....open full
2. Battery master switch.....ON
3. Anti-Collison Lights.....ON
4. Alternator switch.....ON
5. Magnetos.....ON
6. Electric fuel pump.....OFF
7. Mixture.....idle cut-off
8. Propeller.....clear
9. Starter.....engage
10. Mixture.....advance
11. Throttle.....retard
12. Oil pressure.....CHECK

STARTING WITH EXTERNAL POWER SOURCE

1. Battery master switch.....OFF
2. Alternator switch.....OFF
3. Magnetos.....ON
4. All electrical equipment.....OFF
5. Terminals.....connect
6. External power plug.....Insert

Proceed with normal start

7. Throttle.....lowest possible RPM
8. Right magneto switch.....ON
9. External power plug -disconnect from fuselage
10. Battery master switch.....ON
11. Anti-Collison Lights.....ON
12. Alternator switch...ON–check ammeter
13. Oil pressure.....check

WARM-UP

1. Throttle.....800 to 1200 RPM
2. Avionics.....ON
3. Radios.....ON & SET

TAXIING

1. Taxi area.....clear
2. Parking brake.....released
3. Mixture .....SET
4. Lights.....as needed
5. Throttle.....apply slowly
6. Brakes.....check
7. Steering.....check

GROUND CHECK (RUN-UP)

1. Parking break……set
2. Throttle……2000 RPM
3. Mixture……SET
4. Magnetos……max. drop 175 RPM
   max. diff. 50 RPM
5. Vacuum……4.8 to 5.2 in. Hg
6. Oil temperature……check
7. Oil Pressure……check
8. Air conditioner……check
9. Ammeter……check
10. Annunciator panel……press-to-test
11. Carburetor heat ……check
    ……approx. 75 RPM drop
12. Fuel Tank……Switch Tanks
13. Electric fuel pump……OFF
14. Fuel pressure……check
15. Throttle……idle
16. Throttle……1,000 RPM
17. Takeoff Briefing……complete

BEFORE TAKEOFF (RUN-UP)

1. Battery master switch……verify ON
2. Alternator switch……verify ON
3. Magnetos……verify ON
4. Flight instruments……check
5. Fuel selector……fullest tank
6. Electric fuel pump……ON
7. Lights……as needed
8. Engine gauges……check
9. Carburetor heat……OFF
10. Mixture……set
11. Seat backs……erect
12. Seats….adjusted and locked in position
13. Belts/harness……fastened/check
14. Empty seats……seat belts
    ……securely fastened
15. Flaps……set
16. Trim……set
17. Controls……free
18. Door……latched
19. Air conditioner……OFF

TAKEOFF

NORMAL TECHNIQUE

1. Flaps……set
2. Trim……set
3. Accelerate to 60 KIAS
4. Control wheel……back pressure
   …..to smoothly rotate to climb attitude

SHORT FIELD OBSTACLE CLEARANCE

1. Flaps……25 (second notch)
2. Trim……slightly aft of neutral
3. Throttle…full power prior to brake release
4. Accelerate to ……55 KIAS
   ……(depending on aircraft weight)
5. Control wheel ……back pressure
   …… to rotate to climb attitude
6. After breaking ground……accel to 60
   ……(depending on aircraft weight)
7. Accelerate to best flaps up angle to climb speed ……64 KIAS
8. Flaps……retract slowly
9. Accelerate to best flaps up rate of climb speed ……76 KIAS

CLIMB

1. Best rate……76 KIAS
2. Best angle……64 KIAS
3. En route……87 KIAS
4. Electric fuel pump……OFF
5. Lights……as needed

CRUISING

1. Power……set per power table
2. Mixture……adjust
3. Lights……as needed

DESCENT

NORMAL

1. Throttle……2500 RPM
2. Airspeed……122 KIAS
3. Mixture……SET
4. Carburetor heat……ON if required

POWER OFF

1. Carburetor heat……ON if required
2. Throttle……closed
3. Airspeed……as required
4. Mixture……as required
5. Power……verify
   ……with throttle every 30 seconds

APPROACH AND LANDING

1. Fuel selector……proper tank
2. Seat backs……erect
3. Seats……adjust and locked in position
4. Belts/harness……fasten/adjust
5. Electric fuel pump……ON
6. Lights……as needed
7. Mixture……SET
8. Flaps……set – 102 KIAS max
9. Air conditioner……OFF
10. Initial approach speed……75 KIAS
11. Final approach speed……66 KIAS

AFTER LANDING

1. Flaps……retract
2. Electric fuel pump……OFF
3. Mixture……lean for taxi back
4. Lights……as needed

STOPPING ENGINE

1. Air conditioner……OFF
2. Avionics master switch……OFF
3. Electrical switches……OFF
4. Throttle……closed
5. Mixture……idle cut-off
6. Magneto switches……OFF
7. Lights……OFF
   (Leave Beacon On)
8. Alternator switch……OFF
9. Battery master switch……OFF

PARKING

1. Parking Brake……SET
2. Flaps……full up
3. Control Wheel ……secured with belts
4. HOBBS & TACH……record
5. Doors……locked
6. Wheel chocks……in place
7. Tie downs……secure