

**PIPER
CHEROKEE ARCHER II**

BEFORE STARTING ENGINE

Seatbelts ON
Tach Time Record
Brakes SET
Carburetor Heat Full COLD
Fuel Selector Desired Tank
Circuit Breakers Check IN

STARTING ENGINE WHEN COLD/HOT

Throttle 1/4"(Cold) / 1/2"(Hot) OPEN
Beacon (FIN) ON
Master Switch ON, Check Flag On Turn/Slip
Electric Fuel Pump ON
Mixture Full RICH
Prime If Engine Cold
Starter Engage
Throttle Adjust To 1000 RPM
Oil Pressure Check
Avionics Master ON
Radios And Electrical ON
Electric Fuel Pump OFF
(cold) If engine does not start within 10 sec. prime and repeat starting procedure.

WARM-UP / TAXI

Throttle 800 To 1200 RPM
Brakes Check
Steering Check

CHECK MOVEMENT OF FLIGHT INSTRUMENTS

GROUND CHECK

Brakes Set
Throttle 2000 Rpm
Magnets Max Drop 175 Rpm, Max Diff 50 Rpm
Vacuum 5.0hg.± .1
Annunciator Panel Press To Check
Oil Temp Check
Oil Pressure Check
Fuel Pressure Check
Carburetor Heat Check
Throttle Retard To 1000 RPM

Engine is warm for takeoff when throttle can be opened without engine faltering.

BEFORE TAKEOFF

Auto Pilot Off
Master Switch On
Flight Instruments Check/Set
Fuel Selector Proper Tank
Electric Fuel Pump On
Engine Gauges Check
Carburetor Heat Off
Mixture Set
Primer Locked
Belts/Harness Fastened/Adjusted
Seat Backs Erect
Empty Seats Seat Belts Snugly Fastened
Flaps Exercise And Set
Trim Tab Set
Controls Free And Correct
Doors Latched
Transponder On Alt
Strobe Lights (Wing) On
CONTACT TOWER

**POST LANDING CHECKLIST
(When clear of runway)**

Flaps Retract
Fuel Pump OFF
Strobe Lights (Wing) OFF
Transponder STANDBY

SHUT DOWN

Fuel Pump OFF
Radios & Electrical OFF
Throttle Idle
Mixture Idle Cut OFF
Mags OFF
Master Switch OFF
Beacon OFF

VA(2550 lb) 113
 (1634 LB) 89
 VFE 102
 VNE 154
 VNO 125
 VS 55 table 5-3
 VSO 49 table 5-3
 VX 64 with flaps retracted
 VY 76 with flaps retracted
 En route climb 87 with flaps retracted
 Engine out best rate 76 KIAS
 landing approach speed(FLAPS 40°) 66KIAS
 MAX DEM X-WIND 17 KTS

Short-field take off:

Flaps (Second notch). Accelerate to 41 to 49 KIAS depending on weight. Rotate. After breaking ground, accelerate to 45 to 54 KIAS depending on weight. Accelerate to 64 KIAS, slowly retract flaps and climb past obstacle. Accelerate to 76 KIAS.

Soft Field take off:

Flaps (Second notch). Accelerate to 41 to 49 KIAS depending on weight. Back pressure to climb attitude. After breaking ground, accelerate to 45 to 54 KIAS depending on weight. Accelerate to 76 KIAS, slowly retract flaps.

FIRE IN FLIGHT

Source Of Fire Check
 Electrical Fire (Smoke In Cabin):
 Master Switch OFF
 Vents..... Open
 Cabin Heat OFF
 Land as soon as practicable,
 Allow 2 to 5 min cool down before breaker reset
 STALL HORN INOP WHEN MASTER SWITCH IS OFF

ENGINE FIRE:

Fuel Selector OFF
 Throttle.....CLOSED
 Mixture..... Idle Cut-Off
 Electric Fuel Pump.....Check OFF
 Heater And Defroster OFF
 Proceed with power off landing procedure.

ENGINE ROUGHNESS

Carb Heat ON
 Electric Fuel Pump ON
 Fuel Selector..... Switch Tanks
 If Roughness Continues After One Min:
 Carb Heat OFF
 Mixture Adjust For Max Smoothness
 Engine Gauges CHECK
 Magneto Switch..... "L" Then "R" Then "BOTH"
 If operation is satisfactory on either one, continue on that magneto at reduced power and full "RICH" mixture to first airport. Prepare for power off landing

CARB ICING

Carb Heat ON
 Mixture Adjust For Max. Smoothness.

ENGINE OUT

76 KIAS, Field,Fuel pump,Fuel tank,Mixture, Carb heat,Eng-Prime. Remember F-F-M-C-E-P
 IF ENGINE DOESN'T RESTART: Squawk 7700.
 When field is made slow to 66 KIAS .
 WHEN COMMITTED to landing:
 Ignition..... OFF
 Master SwitchOFF
 Fuel Selector..... OFF
 Mixture Idle Cut-Off
 Seat Belts And Harness Tight
 Door Open prior to touchdown.
 STALL HORN INOP WHEN MASTER SWITCH IS OFF