

**Piper Cherokee N4946L**  
**Normal Checklist (Rev. 1.3 24AUG21)**

**BEFORE STARTING ENGINE**

Passenger Briefing ..... COMPLETE  
 Weight and Balance ..... VERIFY IN LIMITS  
 Seats ..... ADJUSTED AND LOCKED  
 Seatbelts/Harnesses ..... FASTENED  
 Prayer ..... AS DESIRED  
 Fuses/Circuit Breakers ..... CHECK IN  
 Parking Brake ..... ON  
 Fuel Selector ..... FULLEST TANK  
 Battery Master Switch ..... ON  
 Fuel Pump Switch ..... ON  
 Beacon Switch ..... ON  
 Ignition Switch ..... LEFT MAG  
 Throttle ..... OPEN ¼ inch  
 Mixture ..... RICH  
 Prime ..... AS REQ'D THEN LOCK

**ENGINE START – NORMAL, COLD**

Propeller Area ..... "CLEAR"  
 Starter ..... ENGAGE  
 Ignition Switch ..... BOTH  
 Power ..... ADJUSTED 800-1000 RPM  
 Oil Pressure ..... CHECK

**NOTE**

Starter manufacturers recommend that cranking periods be limited to 30 seconds with a 2-minute rest between cranking periods. Longer cranking periods will shorten the life of the starter.

**ENGINE START – FLOODED**

Throttle ..... FULL OPEN  
 Fuel Pump ..... OFF  
 Mixture ..... IDLE/CUTOFF  
 Ignition Switch ..... LEFT  
 Starter ..... ENGAGE

**BEFORE TAXI**

Timer ..... Start  
 Radios (4) ..... ON  
 Transponder ..... ALT / SET CODE  
 Mixture ..... LEAN OUT 1" FOR TAXI  
 Landing Light ..... ON  
 Parking Brake ..... OFF  
 Brakes & Steering ..... CHECK

**WARM UP**

As soon as the engine starts the oil pressure should be checked. If no pressure is indicated within 30 seconds, stop the engine and determine the trouble. (In cold weather, it will take a few seconds longer to get an oil pressure indication.) Warm up the engine at 800 – 1000 RPM.

**GROUND CHECK**

Parking Brake ..... ON  
 Fuel Selector ..... FULLEST TANK  
 Mixture ..... ADJUST FOR D.A. & ELEVATION  
 Throttle ..... 2000 RPM  
 Carburetor Heat ..... CHECK, THEN OFF  
 Ignition Switch ..... CHECK  
     MAX DROP 125/MAX DIFFERENCE 50 RPM  
 Fuel Pump ..... OFF  
     Verify engine operation  
 Fuel Pressure ..... CHECK  
 Oil Temp ..... CHECK  
 Oil Pressure ..... CHECK  
 Vacuum ..... 4.9 - 5.1  
 Ammeter ..... POSITIVE  
 Throttle ..... IDLE  
     THEN 1000 RPM

**BEFORE TAKEOFF – FIRST TAKEOFF**

Flight Instruments ..... CHECK/SET  
 Flight Controls ..... FREE AND CORRECT  
 Strobes ..... ON  
 Mixture ..... ADJUST FOR D.A. & ELEVATION  
 Carburetor Heat ..... OFF  
 Landing Light ..... ON  
 Fuel Pump ..... ON  
 Fuel Selector ..... FULLEST TANK  
 Flaps ..... 0° NORMAL/25° SHORT or SOFT  
 Trim ..... SET FOR TAKEOFF  
 Door/Window ..... LATCHED/CLOSED  
 Seats ..... ADJUSTED & LOCKED  
 Seatbelts ..... FASTENED  
 Empty Seats ..... SECURED  
 Takeoff Briefing ..... COMPLETE

**CLIMB**

Initial Climb ..... 85 MPH  
 Flaps ..... UP  
 Fuel Pump ..... OFF AT 1000 AGL  
 Enroute Climb ..... 100 MPH

**CRUISE**

Landing Light ..... OFF  
 Power ..... SET 2300 RPM  
 Mixture ..... ADJUST  
 Heading Indicator ..... CHECK EVERY 15 MINUTES

**DESCENT**

Radios & Avionics ..... CHECK AND SET  
 Altimeter ..... SET  
 Heading Indicator ..... SET  
 Landing Light ..... ON  
 Mixture ..... ADJUST  
 Fuel Selector ..... FULLEST TANK  
 Seats/Seatbacks ..... ADJUSTED AND LOCKED  
 Seatbelts/Harnesses ..... FASTENED  
 Approach Briefing ..... COMPLETE

**BEFORE LANDING**

Fuel Selector ..... FULLEST TANK  
 Mixture ..... FULL RICH  
 Fuel Pump ..... ON  
 Landing Light ..... ON

**AFTER LANDING**

Trim ..... SET NEUTRAL  
 Flaps ..... RETRACT  
 Fuel Pump ..... OFF  
 Landing Light ..... AS REQ'D  
 Mixture ..... LEAN 1 INCH  
 Strobe Light ..... AS REQ'D  
 Transponder Code ..... AS REQ'D

**BEFORE TAKEOFF - SUBSEQUENT TAKEOFFS**

Trims ..... SET  
 Flaps ..... SET  
 Strobes ..... ON  
 Mixture ..... SET  
 Carburetor Heat ..... OFF  
 Landing Light ..... ON  
 Fuel Pump ..... ON  
 Fuel Selector ..... FULLEST TANK  
 Flight Instruments ..... CHECK/SET  
 Takeoff Briefing ..... COMPLETE

**STOPPING ENGINE**

Parking Brake ..... AS REQ'D  
 Landing / Strobe Lights ..... OFF  
 Fuel Pump ..... OFF  
 Avionics ..... OFF  
 Throttle ..... 1000 RPM  
 Ignition Switch ..... GROUND CHECK  
 Mixture ..... IDLE CUT-OFF  
 Ignition ..... OFF / KEY REMOVED  
 Beacon ..... OFF  
 Battery Master Switch ..... OFF

**LEAVING AIRCRAFT**

Parking Brake ..... AS REQ'D  
 Flaps ..... VERIFY RETRACT  
 Control Wheel ..... SECURED WITH BELTS  
 Passenger and Baggage Door ..... LOCKED  
 Chocks ..... INSTALLED  
 Pitot Cover ..... INSTALLED

**QUICK REFERENCES****SPEEDS**

Power off Glide .....	85 MPH
V <sub>x</sub> .....	74 MPH
V <sub>y</sub> .....	85 MPH
V <sub>so</sub> .....	57 MPH
V <sub>s</sub> .....	67 MPH
V <sub>fe</sub> .....	115 MPH
V <sub>a</sub> (@2400 LBS) .....	129 MPH
V <sub>no</sub> .....	140 MPH
V <sub>ne</sub> .....	171 MPH

**WEIGHTS Normal Category**

Maximum Ramp .....	2400 lbs
Maximum Weight .....	2400 lbs
Maximum Baggage .....	200 lbs

