

# PIPER LANCE CHECK LIST

## BEFORE ENGINE START

- Preflight ..... COMPLETE
- Electrical Equipment ..... OFF
- Brakes ..... SET
- Fuel Selector ... DESIRED TANK
- Cowl Doors ..... SECURE
- Cargo Door ..... SECURE
- Tie Downs ..... REMOVED
- Wheel Chocks ..... REMOVED
- Seat Belts ..... FASTENED
- Seats ..... PROPERLY ADJUSTED
- Cabin Door ..... LATCHED

## STARTING ENGINE

- Propeller ..... Full increase rpm
- Throttle ..... ½" OPEN
- Mixture ..... Idle Cut Off
- Master Switch ..... "ON"
- Electrical Fuel Pump ... "ON" (check fuel pressure)
- Prime ..... Mixture Full Rich,  
..... observe fuel flow, Mixture to Idle Cut-off
- Propeller Area ..... CLEAR
- Starter ..... ENGAGE
- After Engine Fires ..... Mixture Full Rich

## AFTER ENIGIE STARTS

- Electric Fuel Pump ..... ON
- Throttle ..... 1000 RPM
- Oil Pressure ..... CHECK
- Fuel Pressure ..... CHECK
- Lights ..... AS APPROPRIATE

## BEFORE TAXIING

- Radios ..... SET
- Mixture ..... LEAN
- Transponder ..... STANDBY
- Heading Indicator ..... SET
- ATIS ..... CHECK
- Altimeter ..... SET
- Brakes ..... RELEASE
- Ground Control ..... CALL

## TAXIING

- Attitude Indicator ..... CHECK WHILE TAXIING
- Turn Coordinator ..... CHECK WHILE TAXIING

## GROUND CHECK (RUN UP)

- Parking Brake ..... SET
- Propeller ..... FULL INCREASE
- Mixture ..... FULL RICH
- Throttle ..... 2000 RPM
- Magnetos ... BOTH – LEFT (max drop 175 RPM)
- ... BOTH – RIGHT (max drop 175 RPM)
- ... Maximum difference 50 RPM (left to right)

- Vacuum ..... 4.9" Hg to 5.1" Hg
- Oil Temperature ..... CHECK
- Oil Pressure ..... CHECK
- Annunciator Panel ..... CHECK
- Alternate Air ... CHECK (RPM drop with Alt heat)
- Fuel Pressure ... CHECK (with elec fuel pump off)
- Throttle Retard ..... 1000 RPM
- Auto Pilot ..... Check
- Master Switch ..... ON
- Flight Instruments ..... CHECK
- Fuel Selector ..... PROPER TANK
- Electric Fuel Pump ..... ON
- Engine Gauges ..... CHECK
- Carb Heat ..... OFF
- Flight Controls ..... FREE AND CORRECT
- Seats ..... PROPERLY ADJUSTED
- Doors ..... LATCHED
- Mixture ..... SET
- Propeller ..... SET
- Seat Belts ..... FASTENED
- Flaps ..... SET
- Trim ..... SET

## TAKEOFF

- Accelerate to 75 KIAS and rotate

## V SPEEDS

- Best Angle of Climb (Vx) ..... 87 KIAS
- Best Rate of Climb (Vy) ..... 92 KIAS
- Best Glide ..... 92 KIAS
- Final Approach Speed ... 75 KIAS (constant wind)
- ..... 85 KIAS (gusty wind)
- Flaps Extended Airspeed ..... 109 KIAS
- Max Landing Gear Extension Airspeed ... 129 KIAS
- Max Landing Gear Retraction Airspeed .. 106 KIAS

## STARTING ENGINE WHEN FLOODED

- Throttle ..... FULL OPEN
- Master Switch ..... ON
- Electric Fuel Pump ..... OFF
- Mixture ..... IDLE CUT-OFF
- Starter ..... ENGAGE

## AFTER ABOUT 5 REVOLUTIONS

(while starter engaged)

- Mixture ..... ADVANCE
- Throttle ..... RETARD

## APPROACH AND LANDING

- Fuel Selector ..... PROPER TANK
- Seat Belts ..... FASTENED
- Electric Fuel Pump ..... ON
- Mixture ..... SET
- Propeller ..... SET
- Gear ..... down – 129 KIAS MAX
- Flaps ..... SET
- Final Approach Speed ..... 75 – 85 KIAS

# PIPER LANCE CHECK LIST

## AFTER LANDING

- Flaps ..... RETRACT
- Mixture ..... LEAN
- Fuel Pump ..... OFF
- Transponder ..... STANDBY

## SHUTDOWN

- Electrical Equipment ..... OFF
- Throttle ..... 1000 RPM
- Mixture ..... IDLE CUT-OFF
- Magnetos ..... OFF

## PREFLIGHT

- Control Wheel ..... UNLOCK
- Master Switch ..... ON
- Fuel Gauges ..... CHECK
- Position Lights ..... ON
- Landing Lights ..... ON
- Strokes ..... ON
- Pitot Heat ..... ON
- Lights ..... CHECK ILLUMINATION
- Pitot Heat ... CHECK PITOT HEAD FOR WARMTH
- Lights, Pitot Heat and Master Switch ..... OFF
- Flaps ..... ONE NOTCH
- Flaps ..... CHECK MOVEMENT
- Control Surfaces ..... CHECK MOVEMENT
- Hinges ..... CHECK
- Wing ..... CHECK for damage and frost
- Fuel Level ..... CHECK
- Fuel Sumps ..... DRAIN
- Fuel Vents .... CHECK FOR CLEAR OPENINGS
- Landing Gear Struts ..... CHECK
- Tires ..... CHECK CONDITION
- Oil Level ..... CHECK
- Fuselage Static Vents ..... CHECK
- Pitot Head ..... CHECK FOR CLEAR OPENINGS
- Wind Shield ..... CHECK CONDITION
- Propeller ..... CHECK CONDITION
- Cowling ..... CHECK SECURITY
- Air Inlets ..... CHECK FOR CLEAR OPENINGS
- Alternator Belt ..... CHECK
- Baggage ..... SECURE
- Baggage Door ..... LATCHED
- Required Papers ..... CHECK FOR (arrow)

## SHORT FIELD TAKEOFF

- Flaps ..... THIRD NOTCH
- Accelerate ..... 75 KIAS
- After Breaking Ground accelerate to 87 KIAS
- After obstacles are cleared, lower nose for 92 KIAS
- Continue climb out

Crystal ATIS .....	125.7
Crystal Ground .....	121.6
Crystal Tower .....	120.7
Flight Watch .....	122.0
FSS Airport Radio .....	123.6
MULTICOM .....	122.9
Clearance Deliver .....	121.3
Anoka ATIS .....	120.625
Anoka Ground .....	121.85
Anoka Tower .....	126.05
Transponder – VFR .....	1200
Transponder – HiJacking .....	7500
Transponder – Lost Communications .....	7600
Transponder – Emergency .....	7700

## Airplane

Useful Load .....	1597 lb
V <sub>LO</sub> Gear Operating .....	106 KIAS
V <sub>LE</sub> Gear Extended .....	129 KIAS
V <sub>X</sub> best climb angle .....	87 KIAS
V <sub>Y</sub> best climb rate .....	92 KIAS
Final Approach Airspeed .....	75 KIAS
Rotate Airspeed .....	75 KIAS

Version 2/26/2002