

PIPER ARROW CHECKLIST

PREFLIGHT CHECK - COCKPIT

Control Wheel ----- CHECK
Avionics ----- OFF
Parking Brake ----- SET
All Switches ----- OFF
Mixture ----- IDLE CUT-OFF
Master Switch ----- ON
Fuel Gauges ----- CHECK QUANTITY
Annunciator Panel ----- CHECK
Master Switch ----- OFF
Primary Flight Controls ----- CHECK
Flaps ----- CHECK
Trim ----- NEUTRAL
Pitot & Static Systems ----- DRAIN
Windows ----- CHECK
Required Papers ----- CHECK
Tow Bar & Baggage ----- SECURE
Baggage Door ----- SECURE

PREFLIGHT - RIGHT WING

Surface Condition ----- CHECK
 Flap & Hinges ----- CHECK
 Aileron & Hinges ----- CHECK
 Wing Tip & Lights ----- CHECK
 Fuel Tank --- CHECK QTY, SECURE CAP
 Fuel Tank Vent ----- CLEAR
 Fuel Tank Sump ----- DRAIN
 Tie Down & Chock ----- REMOVE
 Main Gear Strut ----- CHECK
 Tire ----- CHECK
 Brake ----- CHECK
 Fresh Air Inlet ----- CLEAR

PREFLIGHT - NOSE SECTION

General Condition ----- CHECK
Cowling ----- SECURE
Windshield ----- CLEAN

NOSE SECTION, CONT.

Propeller & Spinner ----- CHECK
Air Inlets ----- CLEAR
Alternator Belt ----- CHECK
Chock ----- REMOVE
Nose Gear Strut ----- CHECK
Nose Wheel Tire ----- CHECK
Engine Baffle Seals ----- CHECK
Oil ----- CHECK
Dipstick ----- PROPERLY SEATED
Fuel Strainer ----- DRAIN

PREFLIGHT - LEFT WING

Surface Condition ----- CHECK
Fresh Air Inlet ----- CLEAR
Chock ----- REMOVE
Main Gear Strut ----- CHECK
Tire ----- CHECK
Brake ----- CHECK
Fuel Tank ---- CHECK QTY, CAP SECURE
Fuel Tank Vent ----- CLEAR
Fuel Tank Sump ----- DRAIN
Tie Down ----- REMOVE
Pitot/Static Head ----- CHECK
Wing Tip & Lights ----- CHECK
Aileron & Hinges ----- CHECK
Flap & Hinges ----- CHECK

PREFLIGHT - FUSELAGE

Antennas ----- CHECK
Empennage ----- CHECK
Fresh Air Inlet ----- CLEAR
Stabilator & Trim Tab ----- CHECK
Tie Down ----- REMOVE
Master Switch ----- ON
Cockpit Lighting ----- CHECK
Nav & Strobe Lights ----- CHECK

FUSELAGE, CONT.

Stall Warning ----- CHECK
Pitot Heat ----- CHECK
All Switches ----- OFF
Passengers ----- BOARD
Cabin Door ----- CHECK
Seat Belts & Harness ----- CHECK

BEFORE STARTING ENGINE

Brakes ----- SET
Propeller ----- FULL INCREASE RPM
Fuel Selector ----- DESIRED TANK
Alternate Air ----- OFF
Radios ----- OFF

STARTING ENGINE WHEN COLD

Throttle ----- 1/2" OPEN
Master Switch ----- ON
Electric Fuel Pump ----- ON
Mixture - PRIME, THEN IDLE CUT-OFF
Starter ----- ENGAGE
Mixture ----- FULL RICH
Throttle ----- ADJUST
Oil Pressure ----- CHECK

STARTING ENGINE WHEN HOT

Throttle ----- 1/2" OPEN
Master Switch ----- ON
Electric Fuel Pump ----- ON
Mixture ----- IDLE CUT-OFF
Starter ----- ENGAGE
Mixture ----- ADVANCE
Throttle ----- ADJUST
Oil Pressure ----- CHECK

STARTING ENGINE WHEN FLOODED

Throttle ----- FULL OPEN
Master Switch ----- ON
Electric Fuel Pump ----- OFF
Mixture ----- IDLE CUT-OFF
Starter ----- ENGAGE
Mixture ----- ADVANCE
Throttle ----- RETARD
Oil Pressure ----- CHECK

WARM-UP

Throttle ----- 1400-1500 RPM

TAXIING

Chocks ----- REMOVED
Taxi Area ----- CLEAR
Throttle ----- APPLY SLOWLY
Prop ----- HIGH RPM
Brakes ----- CHECK
Steering ----- CHECK

GROUND CHECK

Propeller ----- FULL INCREASE
Throttle ----- 2000 RPM
Magnetos ----- MAX DROP 175 RPM
 MAX DIFF. 50 RPM
Vacuum ----- 4.8" - 5.1" HG
Oil Temperature ----- CHECK
Oil Pressure ----- CHECK
Air Conditioner ----- CHECK
Annunciator Panel --- PRESS TO TEST
Propeller - EXERCISE, FULL INCREASE
Alternate Air ----- CHECK

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

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GROUND CHECK, CONT.	SHORT FIELD, CONT.	CRUISING	RADIO FREQUENCIES
Electric Fuel Pump ----- OFF Fuel Pressure ----- CHECK Throttle ----- RETARD	AFTER BREAKING GROUND, ACCELERATE TO 55-65 KIAS. Gear ----- UF (OVERRIDE ENGAGED ON AIRCRAFT EQUIPPED W/ BACKUP GEAR EXTENDER) ACCELERATE TO BEST FLAPS UP ANGLE OF CLIMB SPEED - 77 KIAS, SLOWLY RETRACT FLAPS & CLIMB PAST OBSTACLE. ACCELERATE TO BEST FLAPS UP RATE OF CLIMB SPEED - 87 KIAS.	REFERENCE PERFORMANCE CHARTS Normal Max Power ----- 75% Power ----- SET PER POWER TABLE Mixture ----- ADJUST	KGAI - GAITHERSBURG CTAF ----- 123.075 AWOS ----- 128.275
BEFORE TAKEOFF		APPROACH & LANDING	KFDK - FREDERICK CTAF ----- 122.725 AWOS ----- 124.875
Master Switch ----- ON Flight Instruments ----- CHECK Fuel Selector ----- PROPER TANK Electric Fuel Pump ----- ON Engine Gauges ----- CHECK Alternate Air ----- CLOSED Seat Backs ----- ERECT Mixture ----- SET Prop ----- SET Belts/Harness ----- CHECK Empty Seats ----- CHECK Flaps ----- SET Trim Tab ----- SET Emergency Gear Extension Lever - UP Controls ----- FREE Doors ----- LATCHED Air Conditioner ----- OFF	SOFT FIELD Flaps ----- 25 DEG (2ND NOTCH) ACCELERATE TO 50-60 KIAS Control Wheel -- BACK PRESSURE TO ROTATE TO CLIMB ATTITUDE AFTER BREAKING GROUND, ACCELERATE TO 55-65 KIAS. Gear ----- UF (OVERRIDE ENGAGED ON AIRCRAFT EQUIPPED W/ BACKUP GEAR EXTENDER) ACCELERATE TO BEST FLAPS UP RATE OF CLIMB SPEED - 87 KIAS. Flaps ----- RETRACT SLOWLY	Fuel Selector ----- PROPER TANK Seat Backs ----- ERECT Belts/Harness ----- FASTEN/ADJUST Electric Fuel Pump ----- ON Mixture ----- SET Propeller ----- SET Emergency Gear Extension Lever - UP Gear ----- DOWN, 130 KIAS MAX Flaps ----- SET, 108 KIAS MAX Air Conditioner ----- OFF TRIM TO 75 KIAS	KDMW - CARROLL COUNTY CTAF ----- 122.700 AWOS ----- 121.250
NORMAL TAKEOFF	CLIMB Best Rate (GEAR UP) ----- 87 KIAS* Best Rate (GEAR DOWN) --- 76 KIAS* Best Angle (GEAR UP) ----- 77 KIAS* Best Angle (GEAR DOWN) -- 70 KIAS* *(2750 LB.) (FLAPS UP)	STOPPING ENGINE Flaps ----- RETRACT Electric Fuel Pump ----- OFF Air Conditioner ----- OFF Radios ----- OFF Propeller ----- FULL INCREASE Throttle ----- FULL AFT Mixture ----- IDLE CUT-OFF Magnetos ----- OFF Master Switch ----- OFF	POTOMAC TRACON CLEARANCE ----- 121.600 APPROACH ----- 132.775, 128.700
SHORT FIELD, OBSTACLE CLEARANCE	En Route ----- 104 KIAS Electric Fuel Pump ----- OFF AT DESIRED ALTITUDE	PARKING Parking Brake ----- SET Control Wheel - SECURED W/ BELTS Flaps ----- FULL UP Wheel Chocks ----- IN PLACE Tie Downs ----- SECURE	IMPORTANT PHONE NUMBERS FLIGHT SERVICES ----- 800-992-7433 POTOMAC CLEARANCE - 866-429-5882 POTOMAC TRAFFIC ---- 540-351-6129 GAITHERSBURG FUEL --- 301-963-8043 WIFA OFFICE ----- 240-246-7529



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