

Piper Arrow IV

Arrow N2824Y



Before Start

Pre-Flight.....Complete
Pass Briefing.....Complete
Seat Belts.....Check
Brakes.....Set
Circuit Breakers.....All In
Elec. Equip.....Off
Avionics Master.....Off
Carb. Heat.....Off
Fuel Selector.....Desired Tank

Engine Start

Throttle.....1/2" Open
Master.....On
Fuel Pump.....On
Mixture.....Prime - Idle cut-off
Prop Area.....Clear
Starter.....Engage
Mixture.....Full Rich
Throttle.....1000RPM
Oil Pressure.....Check

Hot Start

Throttle.....1/2" Open
Fuel Pump.....On
Mixture.....Idle cut-off
Prop Area.....Clear
Starter.....Engage
Mixture.....Advance
Oil Pressure.....Check

Pre Taxi

Taxi Area.....Clear
Taxi Lights.....On
Brakes.....Check/Set
Instrument Test.....Check
Propeller.....Full Increase

Run Up

Blast Area.....Clear
Cabin Door.....Latched
Flight Controls.....Check
Mixture.....Rich
Propeller.....Full Increase
Throttle.....2000 RPM
Flight Instruments.....Check
Vacuum Gauge.....4.9-5.1" Hg
Oil Temp/Pressure.....Check
Magnetos.....Check
..(175 RPM max/50 RPM Max diff)
Carb. Heat.....Check
Propeller.....Exercise 3x
Annunciator.....Check
Throttle.....1000RPM

Pre Takeoff (V_R70)

Airspeed (V_y).....87 (76Gear) KIAS
Airspeed (V_x).....77 (70Gear) KIAS
Trim Wheel.....Set Takeoff
Mixture.....Rich
Propeller.....Full Increase
Fuel Pump.....On
Fuel Selector.....Fulllest Tank

Climb

Cruise Climb.....104 KIAS
Fuel Pump.....On
Lights.....As Req.

Cruise

Max Power.....75%
Fuel Pump.....Off
Fuel Pressure.....Check
Mixture.....Adjust

Pre-Landing

Seatbelts.....On
Landing light.....On
Fuel Pump.....On
Fuel Selector.....Fulllest Tank
Mixture.....Rich
Propeller.....Set
Carb Heat.....As Req.
Flaps.....As Req.
40° - Approach 75 KIAS

**GUMPS - Gas Undercarriage Mixture
Prop Switches**

After Landing

Flaps.....Up/Retract
Carb Heat.....Off
Fuel Pump.....Off
Landing light.....As Req.
Taxi lights.....On
Strobes.....Off
Mixture.....Lean as Req.

Securing the Plane

Lights (Except Beacon).....Off
Avionics.....Off
Propeller.....Full Increase
Throttle.....Cut-Off
Mixture.....Idle — Cut-Off
Ignition.....Off
Master Switch.....Off
Flight Controls.....Locked
Hobbs/Tach.....Record
Sun Shade.....Check
Engine Covers.....Check
Doors.....Locked
Tie Down/Chalks.....Check

Additional Information

V_R 70 KIAS
V_y 87 KIAS
V_x 77 KIAS
V_{FE} 108 KIAS
V_{IE} 130 KIAS
V_A 113 KIAS
V_{NO} 121 KIAS
V_{NE} 154 KIAS
V_G 79 KIAS
V_{S0} 55 KIAS
V_{S1} 60 KIAS

Short Field Takeoff
25° of Flaps (2nd Notch)
Acc to 50-60 to break ground
55-65 then Gear up (override)
77 KIAS until clear of obstacle
87 KIAS climb out

Soft Field Takeoff
25° of Flaps (2nd Notch)
Acc to 50-60 to break ground
55-65 then Gear up (override)
87 KIAS climb out

Wx: 208-388-4640/123.9
Clearance: 125.9
Ground: 121.7
Tower: 118.1/119.0 (secondary)
Big Sky: <15NM 119.6/125.5
>15NM 126.9

EMERGENCY PROCEDURES FOUND ON OTHER SIDE