

Piper Arrow IV

Arrow N2824Y



FORBES
AVIATION

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
Beacon.....On
Fuel Quantity.....on JPI Monitor
Fuel Pump.....On
Mixture.....Prime - Idle cut-off
Propeller.....Full Increase
Prop Area.....Clear
Starter.....Engage
Mixture.....Full Rich
Throttle.....1000RPM
Oil Pressure.....Check
Throttle.....1/2" Open
Fuel Pump.....On
Mixture.....Idle cut-off
Prop Area.....Clear
Starter.....Engage
Mixture.....Advance
Oil Pressure.....Check

HOT START

Pre Taxi

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

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 (Vr75)

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

Climb

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

Cruise

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

Pre-Landing

Fuel Selector.....Fullest Tank
Landing Gear.....Extend
Mixture.....Rich
Propeller.....Full Forward
Seatbelts.....On
Landing light.....On
Fuel Pump.....On
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
Throttle.....Cut-Off
Mixture.....Idle — Cut-Off
Ignition.....Off
Master Switch.....Off
Hobbs/Tach.....Record
(2nd & 3rd button on JPI hold down)
Flight Controls.....Locked
Sun Shade.....Check
Engine Covers/Plugs.....Check
Doors.....Locked
Tie Down/Chalks.....Check

Additional Information

Vr 70KIAS
Vy 87KIAS
Vx 77KIAS
Vfe 108KIAS
Vie 130KIAS
Va 113KIAS

Vno 121KIAS
Vne 154KIAS
Vg 79KIAS
Vs0 55KIAS
Vs1 60KIAS

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

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

Piper Arrow IV

Emergency Aircraft Checklist



Failure During Takeoff

Airspeed.....79KIAS
 Fuel Selector.....Fullst Tank
 Fuel Pump.....On
 Mixture.....Rich
 Carb. Heat.....On
 Engine Gauges.....Check
 Master Switch.....On
 Ignition.....On

IF NO RESTART.

Go To "Power Off Landing"

Electrical Fire

Master/Alternator Switch.....Off
 Cabin and Vents.....Closed
 Cabin Heat.....Off
 Land.....A.S.A.P.

Engine Roughness

Carb. Heat.....On
IF ROUGHNESS PERSISTS >1 MIN.
 Carb. Heat.....Off
 Mixture.....Adjust as Req.
 Fuel Pump.....On
 Fuel Selector.....Switch Tank
 Engine Gauges.....Check
 Magneto.....Left—Right—Both
CONTINUE ON BEST MAGNETO.
 Land.....A.S.A.P.

Gear Up Landing

Gear Lock.....OVERRIDE
 ENGAGED before 105KIAS
 Throttle.....Closed
 Master/Switches.....OFF
 Fuel.....OFF
 Mixture.....OFF
 Flaps.....Full

Failure in Flight

Airspeed.....79KIAS
 Landing Location.....Locate
 Fuel Selector.....Fullst Tank
 Fuel Pump.....On
 Mixture.....Rich
 Carb. Heat.....On
 Engine Gauges.....Check

IF NO FUEL PRESSURE.

Fuel Tank.....Verify has Fuel

IF POWER IS RESTORED.

Carb. Heat.....Off
 Fuel Pump.....Off

IF NO RESTART.

Go To "Power Off Landing"

Fire During Start

Starter.....Crank Engine
 Mixture.....Idle Cut-Off
 Throttle.....Open
 Fuel Pump.....Off
 Fuel Selector.....Off
 If Fire Continues.....EVACUATE

Alternator Failure

Circuit Breakers.....Check
 Alternator Switch.....Off/On 1 sec
 Alternator Switch.....On
IF NO OUTPUT.
 Alternator Switch.....Off
 Electrical Load.....Reduce

Emergency Gear Ext.

Master-On. Circuits-Check. Panel Lights-Off.
 Gear Indicator-Check. Airspeed<87. Gear
 selector-DOWN. IF failed-OVERRIDE ENGAGED.
 IF Failed-EMERGENCY DOWN. Yaw side to side
 w/rudder.

Propeller Overspeed

Throttle.....Retard
 Oil Pressure.....Check
 Prop Control.....Decrease-Set
 Airspeed.....Reduce
 Throttle.....<2700

Engine Fire In-Flight

Fuel Selector.....Off
 Throttle.....Closed
 Mixture.....Idle
 Fuel Pump.....Off
 Heater.....Off
 Defroster.....Off
 Airspeed.....120KIAS
 Go To "Power Off Landing"

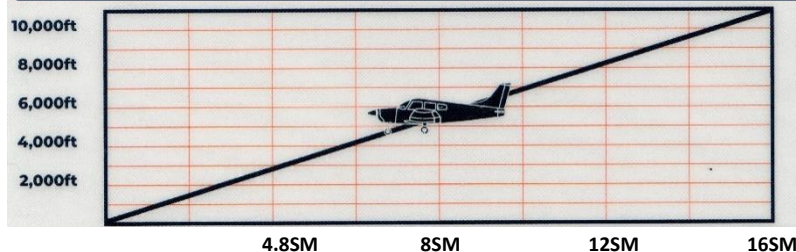
Power Off Landing

Airspeed.....79KIAS
 Landing Location.....Locate
 Radio.....Mayday 121.5
 ELT.....On
 Squawk.....7700
 Seat Belts.....Secure
WHEN LANDING IS PLANNED
 Determine Gear up or Down.
 Mixture.....Cut-Off
 Fuel Selector.....Off
 Ignition & Master.....Off
 Flaps.....As Req.
 Door.....Unlatched

Loss of Fuel Pressure

Fuel Pump.....On
 Fuel Selector.....Fullst Tank

Glide Ratio at a Glance (1.6sm/1,000ft altitude)



Flaps/Gear:	Speed:
Up	79 KIAS
Wind:	Weight:
0 Knots	2750 LBS

This checklist is derived from Piper Arrow IV PA28RT-201 POH. PIC is responsible to reference POH, FAR/AIM etc. The PIC is responsible for compliance with laws and best practices.

Regular Procedures on Other Side