

Piper Arrow III

Nice Air

DO NOT REMOVE CHECKLIST FROM AIRCRAFT

NO SMOKING ALLOWED IN AIRCRAFT

CABIN

Documents.....AROW
Control Wheel.....Belts off
Gear Switch.....Down
Ignition.....OFF
Master Switch.....ON
Fuel Quantity.....Check level
Flaps.....Down
Gear lights.....3 green
Landing Light.....Check
Stall warning.....Check
Nav Lights.....Check
Strobes.....Check
Beacon.....Check
Master Switch.....OFF

EMPENNAGE/FUSELAGE

Control Surfaces.....Check
Anti-Servo tab.....Check
Tail tie Down.....Disconnect
Static vents.....Check

LEFT WING

Flap.....Check
Aileron.....Check free
Navigation Light.....Check
Fuel Qty.....Check Visually
Fuel Vent.....Check
Pitot Tube.....Check
Wing Tiedown.....Disconnect
Main Wheel Tire.....Check
Squat Switch.....Clear
Fuel Sump.....Drain/Check

NOSE

Fuel Strainer.....Drain
Prop & Spinner.....Check
Air Inlets.....Check
Alternator belt.....Check
Nose Wheel.....Check
Nose Gear strut.....Check
.....(inflation 2.75" +/- .25")
Oil.....Check level
Cowling.....Secure

RIGHT WING

Main wheel tire.....Check
Fuel Sump.....Drain/Check
Fuel Vent.....Check
Fuel Qty.....Check Visually
Wing Tie-down.....Disconnect
Aileron.....Check free
Flap.....Check

BEFORE ENGINE START

Preflight inspection.....Done
Tow bar/baggage.....secure
Baggage door.....secure
Seats & Belts.....Adjust/lock
Avionics Master.....OFF
Breakers.....Check/IN
Alternate Air.....Closed
Propeller.....full forward
Fuel Selector.....Desired tank

STARTING ENGINE

Throttle.....½ " open
Prop Control.....High RPM
Master.....ON
Mixture.....Full Rich
Electric fuel pump.....ON
(Until fuel pressure needle moves)
Electric fuel pump.....OFF
Mixture.....OFF
Beacon.....On
Starter.....engage
Mixture.....full rich
Throttle.....1000 RPM
Oil Pressure.....Check
Mixture.....1" Lean
Avionics Master.....On
Transponder.....Standby

V-SPEEDS (KIAS MAX GROSS)

Vr.....70
Vx (gear down - flaps up).....72
Vx (gear up - flaps up).....78
Vy (gear down - flaps up).....78
Vy (gear up - flaps up).....90
Max gear retraction speed.....107
Cruise Climb.....104
Vfe.....<103
Vle.....<129
Best Glide.....79
Approach.....65-75
Va (2750 max gross).....118
(2500 lbs).....~110
(1865 lbs).....96

BEFORE TAKEOFF CHECK

Mixture.....Rich
Prop control.....full increase
Throttle.....2000 RPM
Prop.....Exercise
Magnetos.....Check
<175 Max Drop <50 Max
Difference
Vacuum Gauge.....✓ (4.8"-5.1")
Oil Temp.....Check
Oil pressure.....Check
Annunciator panel.....Test
Alternator.....Check
Alternate air.....Check
Throttle.....1000 RPM or less
Flight Controls.....Free/Clear
Door.....Secure
Flight Instruments.....Check
Radios.....Set

TAKEOFF

Fuel Pump.....ON
Transponder.....ALT
Lights.....As Needed
Flaps.....Set
Trim.....Takeoff position
Mixture.....Rich
At safe altitude.....MP 25"
Prop.....2500 RPM
Cruise Climb.....104 KIAS

CRUISE

Fuel Pump.....OFF
Fuel Pressure.....Check
Power.....Set per table
Mixture.....adjust

SWITCHING TANKS

Fuel pump.....ON
Fuel valve.....Switch tanks
Fuel Pump.....OFF
Fuel pressure.....Check

BEFORE LANDING

Seats & Belts.....Adjust/lock
Fuel Pump.....ON
Fuel Selector.....Fullest tank
Mixture.....Rich
Propeller.....Forward on Final
Gear.....Down <129 KIAS
Flaps.....Set <103 KIAS
Landing Light.....As needed
Approach.....75 KIAS
GUMPS.....✓ on short final

AFTER LANDING

Landing Light.....OFF
Mixture.....1" Lean
Flaps.....UP
Transponder.....Standby
Fuel Pump.....OFF
Trim.....Set for T/O

SHUTDOWN AIRPLANE

Electrical Switches.....OFF
Avionics Master.....OFF
Mixture.....Idle Cutoff
Ignition.....OFF
Master Switch.....OFF

SECURING AIRPLANE

Control Wheel.....belt set
Wheel chocks.....SET
Wing tie downs.....Connect
Tail Tie Down.....Connect
Propeller.....Level & Inspect
Wheels/Brakes.....Inspect
Visual Inspection.....Done
Tach/HOBBS.....Record
Squawks.....Note if any
Tow bar.....Stow
Trash.....Remove all

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Emergency Checklist

ENGINE FAILURE AFTER TAKEOFF

Airspeed.....Pitch for 79 KIAS
Mixture.....Idle Cutoff
Fuel Selector.....OFF
Ignition switch.....OFF
Wing flaps.....As required
Master Switch.....OFF
IF landing area is rough GEAR UP

ENGINE FAILURE DURING FLIGHT

RESTART PROCEDURE

Airspeed79 KIAS
Fuel pump.....ON
Fuel Selector.....Fullest Tank
Mixture.....RICH
Alternate air.....OPEN
Ignition.....Check on Both
.....Or start if prop stopped

FORCED LANDING WITHOUT POWER

Seats/BeltsSecure
Gear.....Down (if landing area smooth)
Airspeed.....79 KIAS
Fuel Selector.....OFF
Ignition switch.....OFF
Master switch.....OFF
Mixture.....Idle cutoff
DoorsUnlatch prior to landing
Touchdown.....slightly tail low
Brakes.....Apply heavily

PROPELLER OVERSPEED

Throttle.....reduce
Oil pressure.....check
Prop.....full decrease
Airspeed.....reduce
Throttleas required to remain <2700 PRM

EMERGENCY LANDING GEAR EXTENSION

MasterCheck ON
Circuit breaker.....check
Panel light.....off (in daytime)
Gear indicator bulbs.....check

Reduce airspeed.....<87 KIAS
Landing gear selector.....DOWN
Locking Pin.....Remove
Emergency gear lever.....EMERGENCY DOWN
Locking pin.....Insert pin above lever
Fishtail aircraft to assist lowering of gear

FIRE ON GROUND

During start on ground.....continue cranking
If engine starts.....Power 1700 for 2 minutes
Engine.....Shutdown

If engine fails to start

Cranking.....Continue
Mixture.....Idle Cutoff
Throttle.....Full Open
Fuel pump.....OFF
Fuel selector.....OFF
Master.....OFF
Fire extinguisher.....Use

ENGINE FIRE IN FLIGHT

Fuel Selector.....OFF
Throttle.....close
Mixture.....Idle Cut OFF
Electric Fuel Pump.....OFF
Heater & Defroster.....OFF
Airspeed.....Speed up to Vno
Forced Landing.....Execute

CABIN FIRE

Master Switch.....OFF
Vents/Cabin/Heat.....Closed
Fire extinguisher.....Activate
Land ASAP and inspect damage

ELECTRICAL FIRE IN FLIGHT

MasterOFF
Vents/Cabin Air/Heat.....OPEN
Cabin Heat.....OFF
Mastereach component ON one at a time

WING FIRE

Navigation Light Switch.....OFF
Pitot Heat.....OFF
Side slipkeep flames away from cabin & fuel tanks
Land.....Immediately

ELECTRICAL POWER SUPPLY MALFUNCTIONS

Ammeter shows excessive rate of charge
Alternator.....OFF
Non-essential electrical equipmentOFF
Flight.....Terminate

LOW VOLTAGE LIGHT ILLUMINATES

Avionics Master.....OFF
Master SwitchOFF(both sides)
Circuit Breakers.....reset any popped circuits
Master Switch.....ON
Low Voltage light.....check ON
If light is still on.....TERMINATE FLIGHT