

AIRCRAFT CHECKLIST

PIPER ARROW IV 2919U

CABIN

Airworthiness certificateCHECK
Registration.....CHECK
Operators handbook.....CHECK
Weight and balanceCHECK
Maintenance items ... CHECK CURRENT
Control wheel RELEASE RESTRAINTS
Master switch ON
Fuel quantity CHECK QUANTITY
Stall warningCHECK
Anti-collision lights..... ON*
Nav light ON*
Taxi/Lnd light ON*
Pitot heat ON*
* check functioning as needed

Master..... OFF
Gear lever DOWN
Flaps.....LOWER
Pitot and static system..... DRAIN
Windshield CHECK CLEAN

RIGHT WING Trailing Edge

Baggage door CLOSE & SECURE
Flaps & hinges.....CHECK
Aileron & hingesCHECK

RIGHT WING

Wing tip and light.....CHECK
Wing tie down..... DISCONNECT
Main tireCHECK (30psi)
Main gear strut 2.5" ±.25"
Fuel sump..... DRAIN SAMPLE
Fuel tank CHECK quantity
Fuel cap.....SECURE
Fuel tank vent CLEAR

NOSE

Engine oil Min 4/Fill to 7/Max 8
Fuel strainer DRAIN
Prop & spinner..... CHECK for damage
Nose wheel strut..... 2.75" ±.25
Nose wheel tire.....CHECK (27psi)

LEFT WING

Wing tip and light.....CHECK
Wing tie down..... DISCONNECT

Main tireCHECK (30psi)
Main gear strut 2.5" ±.25"
Fuel sump..... DRAIN SAMPLE
Fuel tank CHECK quantity
Fuel cap..... SECURE
Fuel tank vent CLEAR
Stall warningCHECK
Pitot/static head REMOVE

LEFT WING Trailing Edge

Flaps & hinges.....CHECK
Aileron & hingesCHECK

FUSELAGE

Antennas.....CHECK
Stabilator & trim tabCHECK
Tie down REMOVE

BEFORE STARTING ENGINE

Preflight inspection COMPLETE
Passenger brief COMPLETE
Hobbs and tach times RECORDED
Seats.....AJUST & LOCK
Seat beltsAJUST & LOCK
Master avionics switch OFF
Brakes TEST
Parking brake SET
Circuit breakers..... CHECK IN
Propeller FULL FORWARD
Alternate air OFF

STARTING ENGINE

Anti-collision switch ON
Throttle OPEN 1/2 inch
Master switch ON
Fuel selector valve LOWEST TANK
Electric fuel pump ON
Mixture PRIME then OFF
Propeller area CLEAR
Ignition switch..... START
Mixture FULL RICH
Electric fuel pump OFF

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AFTER ENGINE START

Throttle ADJUST 800-1000 RPM
Oil pressureCHECK
MixtureLEAN for taxi (1")
Fuel monitorSET

BEFORE TAXI

Annunciator panelCHECK
Gear indicator lights..... ON
Master avionics switch ON
Crew communication.....CHECK
ATISOBTAIN
ClearanceOBTAIN
Transponder..... SET SQUACK CODE
Transponder..... SET ALT
Flaps..... UP
Parking brakeRELEASE
Rolling brake test TEST

BEFORE TAKEOFF (run up)

Parking brakeSET
Cabin doors..... CLOSED and LATCHED
Flight controls FREE and CORRECT
Flight instruments.....SET
Fuel selector valve FULLEST TANK
Elevator & rudder trim.....SET
Flaps.....SET
Throttle 2000 RPM
Mixture.....SET FOR ALTITUDE
Prop.....CYCLE 3X
Magnetos 175 drop either
50 differential
Oil pressureCHECK
Oil temp.....CHECK
AmmeterCHECK
Fuel pressureCHECK
Vacuum 4.8 to 5.1
Throttle800 to 1000 RPM
Friction lockSET
Radios SET and CHECK
Lights.....AS REQUIRED
Takeoff brief..... COMPLETE
TimeCHECK
BrakesRELEASE
Fuel pump ON

NORMAL TAKEOFF

Wing flapsSET
Throttle FULL OPEN
Elevator controlRotate at 65 KIAS
Climb speed 75 KIAS

SHORT FIELD TAKEOFF

Wing flaps 25°
RunwayUSE ALL
Brakes APPLY
Throttle FULL OPEN
Engine instruments.....CHECK
Flight controls NEUTRAL
BrakesRELEASE
Elevator ROTATE at 55 KIAS
Climb speed 60 KIAS
Gear UP
Climb speed 75 KIAS
-After clearing obstacle
Flaps..... UP incrementally
Climb speed 85 KIAS

SOFT FIELD TAKEOFF

Wing flaps 25°
Elevator control FULL UP
Taxi..... CONTINUOUS
Throttle FULL OPEN
Stay in ground effect until 60 KIAS
Gear UP
Climb speed 75 KIAS (Vx)
Flaps..... 0°
Climb Speed 85 KIAS

AFTER TAKEOFF

Flaps..... UP
Gear UP
Climb speed 87 KIAS
PropSET
Engine instruments.....CHECK
Fuel pump OFF
Lights.....AS REQUIRED

ENROUTE CLIMB

Airspeed 100 KIAS
Propeller FULL FORWARD
Throttle FULL OPEN
Mixture LEAN for altitude

CRUISE

Manifold pressSET
RPMSET
Elevator Trim ADJUST
Rudder Trim ADJUST
Mixture LEAN for altitude
EGT set 75° less/rich of peak
Switch tanks at 30 min and every hour thereafter.

DESCENT

Mixture FULL RICH
Alt Air CLOSED

IN RANGE (when in radio range)

ATIS GET WEATHER INFO
AltimeterSET
Align DG with Compass.....COMPLETE
Avionics.....SET
Approach Brief.....COMPLETE

BEFORE LANDING

Gas (fuel selector) FULLEST TANK
Under Carriage (gear) DOWN
Mixture RICH
Props SET FOR LANDING
Seat Belts ON
Switches LIGHTS AS REQUIRED
AUX FUEL PUMP ON

NORMAL LANDING

Approach speed 80 KIAS
Wing Flaps.....AS REQUIRED
Final Airspeed 70 KIAS
Throttle REDUCE to idle
Touchdown MAIN WHEELS 1ST
Brakes MIN REQUIRED

SHORT FIELD LANDING

Gear DOWN
Airspeed 70 KIAS (-0/+10)
Flaps 40°
Throttle IDLE when appropriate
Touchdown MAIN WHEELS FIRST
Brakes APPLY HEAVILY
Flaps 0°
Elevator FULL BACK

SOFT FIELD LANDING

Airspeed 80-70 KIAS
Wing Flaps..... 40°
Final Airspeed 65 KIAS
Throttle ABOVE IDLE
TouchdownSOFTLY
Nose Wheel..... KEEP UP
Elevator FULL BACK
Brakes MIN REQUIRED

REJECTED LANDING (go around)

ThrottleFULL OPEN
Airspeed 70 KIAS
Gear UP
Airspeed 77 KIAS
Wing Flaps..... RETRACT incrementally

AFTER LANDING

Flaps UP
Mixture LEAN for taxi (1")
Transponder.....AS REQUIRED
Aux Fuel Pump OFF
Lights.....AS REQUIRED

ENGINE SHUTDOWN

Parking BrakeAS REQUIRED
ELT.....VERIFY NOT ACTIVE (121.5)
Master Avionics OFF
Switches OFF
Mixture IDLE CUT OFF
Master Switch OFF
Ignition Switch OFF

SECURE AIRCRAFT

Yoke SECURE WITH SET BELT
Wheel Chocks PLACE
Tie Downs ATTACH
Doors..... LOCK

EMERGENCY PROCEDURES

ENGINE FAILURE DURING TAKEOFF

Throttle IDLE
Brakes APPLY
Wing flaps RETRACT
Mixture IDLE CUT-OFF
Ignition switch OFF
Master switch OFF

ENGINE FAILURE

IMMEDIATELY AFTER TAKEOFF

Mixture FULL RICH
Fuel selector valve SWITCH
Fuel pump CHECK ON
If no power, go to forced landing

ENGINE FAILURE DURING FLIGHT

Mixture RICH
Prop FULL FORWARD
Fuel pump ON
Alternate Air ON
Ignition switch BOTH
Fuel selector SWITCH TANKS

FORCED LANDING

Airspeed 79 KIAS
Mixture IDLE CUT-OFF
Fuel pump OFF
Fuel selector valve OFF

* If time permits: Emergency call,
squawk 7700, brief passengers,
stow loose articles

Gear AS REQUIRED
Master switch OFF
Wing flaps 40°
Touchdown SLIGHTLY TAIL LOW

ENGINE FIRE DURING START

Cranking CONTINUE

If engine starts:

Power 1700 RPM for a few minutes
Engine SHUTDOWN

If engine fails to start:

Cranking CONTINUE

Fire extinguisher OBTAIN
Mixture IDLE CUTOFF
Throttle OPEN
Fuel pump OFF
Fuel selector valve OFF
Fire EXTINGUISH

ENGINE FIRE IN FLIGHT

Mixture IDLE CUT-OFF
Fuel selector valve OFF
Fuel pump OFF
Master switch OFF
Cabin heat & air OFF
Emergency descent INITIATE

CABIN FIRE IN FLIGHT

Master switch OFF
Vents OPEN
Heat CLOSED
Fire extinguisher EXTINGUISH
Emergency descent INITIATE

EMERGENCY DESCENT

Airspeed 108 KIAS
Gear DOWN
Wing flaps 40°
Rudder FULL SLIP

EMERGENCY GEAR EXTENSION

Master switch ON
Circuit breakers CHECK
Panel lights OFF (in daytime)
Gear indicator bulb CHECK
Airspeed below 87 KIAS
Gear lever DOWN
Emer gear lever PUSH DOWN

If gear still is not locked down:

-Yaw aircraft rapidly back and forth
-Recycle gear lever