



Piper Arrow Normal Checklist



BEFORE START

PARKING BRAKE	SET
PASSENGER BRIEFING	COMPLETE
SEAT BACKS	MOST UPRIGHT
SEATBELTS & HARNESSSES	FASTEN
CIRCUIT BREAKERS	IN
RADIO MASTER	OFF
ALTERNATE AIR	CLOSE
MIXTURE	IDLE CUT-OFF
PROPELLER	FULL FORWARD
THROTTLE	IDLE
FUEL SELECTOR	FULLEST TANK

ENGINE START

(For "Hot" & "Flooded" starts, ref: POH Section 4)

THROTTLE	½ INCH OPEN
BATTERY MASTER SWITCH	ON
ALTERNATOR SWITCH	ON
FIN STROBE	ON
PRIME	AS REQUIRED

PROPELLER AREA CLEAR

STARTER	ENGAGE
MIXTURE	FULL RICH
THROTTLE	1000-1200 RPM
MIXTURE	ADJUST
OIL PRESSURE	CHECK

AFTER START

RADIO MASTER	ON
ENGINE INSTRUMENTS	CHECK
AMMETER	CHECK
FUEL SELECTOR	SWITCH TANKS
ENVIRONMENTALS	AS REQUIRED
GPS, RADIOS, NAVS	SET
FLT PLAN	BUILD & ACTIVATE
ATIS & ALTIMETERS	COPY & SET
ALTITUDE SELECT	SET
TRANSPONDER	SET & ALT

TAXI

PARKING BRAKE	RELEASE
LANDING LIGHT	ON
BRAKES	CHECK
NOSE WHEEL STEERING	CHECK
FLIGHT INSTRUMENTS	CHECK

ENGINE RUNUP

PARKING BRAKE	SET
LANDING LIGHT	OFF
MIXTURE	FULL RICH
PROPELLER	FULL FORWARD
THROTTLE	2000 RPM
MAGNETOS	(MAX DROP 175, MAX DIFF. 50) CHECK
PROPELLER	EXERCISE
	(RPM—Decrease, MP—Increase, Oil Pressure—Decrease)
ALTERNATE AIR	CHECK
	(Alt Air - Open, MP - Maintained, Alt Air - Closed)
OIL TEMPERATURE	CHECK
OIL PRESSURE	CHECK
AMMETER	CHECK
ANNUNCIATORS	(2) CHECK & CLEAR
THROTTLE	IDLE THEN 1000 RPM
MIXTURE	ADJUST

BEFORE TAKEOFF

FUEL SELECTOR	FULLEST TANK
FLIGHT INSTRUMENTS	CHECK & SET
STANDBY ATTITUDE	TEST
FLIGHT CONTROLS	FREE & CORRECT
ENGINE INSTRUMENTS	CHECK
ELECTRIC FUEL PUMP	ON
PITOT HEAT	AS REQUIRED
ALTERNATE AIR	CLOSED
FRICTION HANDLE	AS DESIRED
PROPELLER	FULL FORWARD
FLAPS	(0° or 25°) SET
EMERGENCY GEAR EXT. LEVER	UP POSITION
TRIM	(2) SET
TAKEOFF BRIEFING	COMPLETE
RADIOS	SET

DOOR & WINDOW	CLOSED & LOCKED
LANDING & STROBE LIGHTS	ON
MIXTURE	FULL RICH

NORMAL TAKEOFF

BRAKES	HOLD
THROTTLE	2000 RPM
ENGINE INSTRUMENTS	CHECK
BRAKES	RELEASE
THROTTLE	FULL POWER
ROTATE	75 KIAS
GEAR	(After Positive Rate) UP
CLIMB	90 KIAS

SHORT FIELD TAKEOFF (Flaps 25°)

FLAPS	25°
BRAKES	HOLD
THROTTLE	2000 RPM
ENGINE INSTRUMENTS	CHECK
THROTTLE	FULL POWER
BRAKES	RELEASE
ROTATE	60 KIAS*
CLIMB	65 KIAS*
GEAR	(After Positive Rate) UP
CLEAR OBSTACLE	78 KIAS
FLAPS	(Above 300 AGL) UP
CLIMB	90 KIAS

* (Rotate and Barrier speed for maximum takeoff weight)

CLIMB (Above 800 AGL)

GEAR	(Below 107) UP
AIRSPEED	104 KIAS
POWER	(25" MP & 2500 RPM) SET
ENGINE INSTRUMENTS	CHECK

CRUISE

ELECTRIC FUEL PUMP	OFF
FUEL FLOW	CHECK
POWER	SET
MIXTURE	LEAN
ENGINE INSTRUMENTS	CHECK
LIGHTS	AS REQUIRED

DESCENT

LANDING LIGHT	ON
POWER	AS REQUIRED
MIXTURE	ADJUST WITH DESCENT
FUEL SELECTOR	FULLEST TANK

BEFORE LANDING

SEAT BACKS	MOST UPRIGHT
BELTS & HARNESSSES	FASTEN & SECURE
ELECTRIC FUEL PUMP	ON
LANDING LIGHT	ON
FUEL SELECTOR	FULLEST TANK
MIXTURE	FULL RICH
PROPELLER	FULL FORWARD
GEAR	(Below 129 KIAS) DOWN, 3 GREEN
FLAPS	AS REQUIRED
	(95 Downwind, 85 Base, 75 Final (72 short field @MLW))

*** GUMPS VERIFY ON BASE AND FINAL ***

AFTER LANDING (Clear of Runway)

RADIO	SET
TRIM	(2) SET
FLAPS	UP
MIXTURE	ADJUST
FUEL PUMP	OFF
STROBES/FIN STROBE	OFF/ON
PITOT HEAT	OFF

SHUTDOWN

PARKING BRAKE	SET
LANDING LIGHT	OFF
ELT	MONITOR 121.50
RADIO MASTER	OFF
ENVIRONMENTALS & LIGHTS	OFF
THROTTLE	IDLE
MAGNETOS	CHECK
THROTTLE	1000 RPM
MIXTURE	IDLE CUT-OFF
MAGNETOS	OFF
ALTERNATOR SWITCH	OFF
BATTERY MASTER	OFF

PRE-MANEUVER

ALTITUDE	CHECK
AIRSPEED	110 KIAS
FUEL SELECTOR	FULLEST TANK
MIXTURE	ADJUST
LANDING LIGHT	ON
ELECTRIC FUEL PUMP	ON
LANDING GEAR	AS REQUIRED
FLAPS	AS REQUIRED



Arrow Emergency & Abnormal Checklist



ENGINE FAILURE (BEFORE ROTATION)

THROTTLE	IDLE
BRAKES	APPLY
FUEL SELECTOR	OFF
MIXTURE	IDLE CUTOFF
MAGNETOS	OFF
BATTERY MASTER SWITCH	OFF

ENGINE FAILURE (AFTER ROTATION)

AIRSPPEED	79 KIAS
GEAR	AS DESIRED

IF ALTITUDE PERMITS

ALTERNATE AIR	OPEN
MIXTURE	FULL RICH
ELECTRIC FUEL PUMP	CHECK ON
MAGNETOS	BOTH
FUEL SELECTOR	SWITCH TANKS

IF ENGINE DOES NOT RESTART

FORCED LANDING	EXECUTE
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ENGINE FAILURE (IN FLIGHT)

AIRSPPEED	79 KIAS
ALTERNATE AIR	OPEN
MIXTURE	FULL RICH
ELECTRIC FUEL PUMP	ON
MAGNETOS	BOTH
FUEL SELECTOR	SWITCH TANKS
ENGINE GAUGES	CHECK

IF POWER IS RESTORED

ALTERNATE AIR	CLOSE
ELECTRIC FUEL PUMP	OFF

IF POWER IS NOT RESTORED

FORCED LANDING	EXECUTE
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FORCED LANDING

AIRSPPEED	79 KIAS
PROPELLER	AS DESIRED
MIXTURE	IDLE CUT-OFF
THROTTLE	IDLE
MAGNETOS	OFF
FUEL SELECTOR	OFF
SEAT BELTS/HARNESSES	FASTEN & SECURE
GEAR & FLAPS	AS DESIRED
LANDING ASSURED	72 KIAS
BATTERY MASTER SWITCH	OFF
ALTERNATOR SWITCH	OFF

ENGINE FIRE (During Start)

STARTER	CONTINUE CRANKING
MIXTURE	IDLE CUT-OFF
THROTTLE	FULL OPEN
ELECTRIC FUEL PUMP	OFF
FUEL SELECTOR	OFF

ABANDON IF FIRE CONTINUES

ENGINE FIRE (In Flight)

THROTTLE	CLOSED
MIXTURE	IDLE CUT-OFF
ELECTRIC FUEL PUMP	CHECK OFF
FUEL SELECTOR	OFF
HEATER & DEFROSTER	OFF
FORCED LANDING	EXECUTE

ELECTRICAL FIRE

BATTERY MASTER SWITCH	OFF
ALTERNATOR SWITCH	OFF
VENTS	OPEN
CABIN HEAT	OFF
FIRE EXTINGUISHER	(If required) ACTIVATE

LAND AS SOON AS POSSIBLE

LOSS OF OIL PRESSURE

OIL PRESSURE GAUGE	CHECK
OIL TEMPERATURE GAUGE	CHECK
LAND	AS SOON AS POSSIBLE

IF TEMPERATURE IS RISING

THROTTLE	REDUCE
FORCED LANDING	(If required) EXECUTE

LOSS OF FUEL PRESSURE

ELECTRIC FUEL PUMP	ON
FUEL GAUGES	CHECK
FUEL SELECTOR	(If sufficient fuel) SWITCH TANKS

PROPELLER OVERSPEED

THROTTLE	REDUCE
OIL PRESSURE	CHECK
PROPELLER CONTROL	FULL DECREASE

SET RPM IF ANY CONTROL AVAILABLE

AIRSPPEED	REDUCE
THROTTLE	(Maintain < 2700 RPM) AS REQUIRED

ELECTRICAL FAILURE

ALT Annunciator ON

AMMETER	CHECK TO VERIFY
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IF AMMETER SHOWS ZERO

ALTERNATOR SWITCH	OFF
ELECTRICAL LOAD	REDUCE
ALTR FIELD CB	CHECK & RESET
ALTERNATOR SWITCH	ON

IF POWER NOT RESTORED

ALTERNATOR SWITCH	OFF
ELECTRICAL LOAD	REDUCE
STANDBY ATTITUDE	CHECK

IF AMBER LIGHT IS FLASHING

STANDBY POWER BUTTON	PRESS
RED GYRO WARNING FLAG	CHECK
AMBER WARNING LIGHT	VERIFY EXTINGUISHED

LAND AS SOON AS PRACTICAL

ELECTRICAL OVERLOAD

BATTERY MASTER SWITCH	OFF
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IF AMMETER DOES NOT DECREASE

ALTERNATOR SWITCH	OFF
LAND	AS SOON AS POSSIBLE
EMERGENCY GEAR EXT.	(Prior to landing) EXECUTE

IF AMMETER DOES DECREASE

BATTERY MASTER SWITCH	ON
AMMETER	MONITOR

IF AMMETER READING DOES NOT BEGIN TO DECREASE WITHIN 5 MINUTES

BATTERY MASTER SWITCH	OFF
LAND	AS SOON AS PRACTICAL

IF AMMETER DOES BEGIN TO DECREASE WITHIN 5 MINUTES

FLIGHT	PROCEED
AMMETER	MONITOR

ENGINE ROUGHNESS

MIXTURE	ADJUST FOR SMOOTHNESS
ALTERNATE AIR	OPEN
ELECTRIC FUEL PUMP	ON
FUEL SELECTOR	SWITCH TANKS
ENGINE GAUGES	CHECK
MAGNETO SWITCH	CHECK THEN BOTH

IF ROUGHNESS PERSISTS, PREPARE FOR A PRECAUTIONARY LANDING

EMERGENCY GEAR EXTENSION

NAV LIGHTS	OFF
GEAR INDICATOR BULBS	CHECK

IF GEAR DOES NOT INDICATE DOWN

AIRSPPEED	(Max) 87 KIAS
BATTERY MASTER SWITCH	ON
ALTERNATOR SWITCH	ON
CIRCUIT BREAKERS	CHECK IN
GEAR SELECTOR	DOWN

IF GEAR DOES NOT EXTEND NORMALLY

AIRSPPEED	(Max) 87 KIAS
GEAR SELECTOR SWITCH	DOWN
EMERGENCY GEAR LEVER	HOLD IN DOWN POSITION

IF GEAR FAILS TO EXTEND REFERENCE POH 3.5m

OPEN DOOR

SLOW AIRPLANE	87 KIAS
CABIN VENTS	CLOSE
STORM WINDOW	OPEN

LATCH DOOR PER POH 3.5o

Revised: 24 August 2018

** To be used in conjunction with the POH**