



CHECKLIST - PIPER PA-23-160 N4451P

Does not substitute Aircraft Flight Manual Apr 2021

BEFORE START

Entering the cabin: – DO NOT HOLD ON THE CABIN DOOR

EXTERIOR PREFLIGHT.....COMPLETE
 PASSENGER BRIEFING.....ACCOMPLISHED
 AVIONICS MASTER.....OFF
 CIRCUIT BRAKERS.....CHECKED
 FUEL SELECTORS.....ON MAIN TANKS
 FUEL CROSSFEED.....OFF
 HEATER FUEL VALVE.....CLOSED (CLOCKWISE GENTLY)
 PRIMERS.....DOWN AND LOCKED
 CARBURATOR HEAT.....OFF
 GENERATOR SWITCHES.....ON
 LANDING GEAR HANDLE.....NEUTRAL
 HYD HAND PUMP CHECK:
 FLAP HANDLE.....DOWN
 HYD HAND PUMP.....PUMP TO MOVE FLAPS
 FLAP HANDLE.....NEUTRAL
 HEATER KNOB.....OFF

ENGINE START

ROTATING BECONS (STROBES).....TOP OR BOTTOM ON
 MIXTURES.....RICH
 PROPELLERS.....FULL FORWARD
 THROTTLES.....1/8 INCH FWD
 MASTER SWITCH.....ON
 LANDING GEAR LIGHTS.....3 GREEN
 FUEL QUANTITY.....CHECKED
 BOOST PUMPS.....ON-CHECKED
 BOOST PUMPS.....OFF
 MAGNETOES:
 BOTH ENGINES.....BOTH MAGS ON
 LEFT ENGINE START:
 PRIMER.....3X IF LESS THAN 20 DEG F
 If primer is used, check down and locked after use.
 LEFT ENGINE.....START
 OIL PRESSURE...CHECKED
 MIXTURE.....LEAN
 THROTTLE.....1000 RPM
 RIGHT ENGINE START:
 PRIMER.....3X IF LESS THAN 20 DEG F
 IF PRIME IS USED, CHECK DOWN / LOCKED AFTER USE
 LEFT ENGINE.....START
 OIL PRESSURE...CHECKED
 MIXTURE.....LEAN
 THROTTLE.....1000 RPM

AFTER START

AVIONICS MASTER.....ON
 TURN COORDINATOR.....ON
 NAV LIGHTS.....ON (FOR ADSB)
 ATIS/ASOS.....OBTAIN
 ALTIMETER.....SET
 NAVIGATION INSTRUMENTS.....SET FOR THE FLIGHT
 TRANSPONDER.....ALT
 MIXTURES.....CONFIRM LEAN
 FLAPS.....UP (CHECK VISUALLY)

TAXI CHECKLIST

BRAKES AND STEERING.....CHECK
 TURN COORDINATOR.....CHECK
 ARTIFICIAL HORIZON.....CHECK
 FLIGHT CONTROLS.....CHECK
 DIRECTIONAL GYRO.....SET

WHILE TAXING DO NOT RIDE THE BRAKES

TAXI CHECKLIST

BRAKES AND STEERING.....CHECK
 TURN COORDINATOR.....CHECK
 ARTIFICIAL HORIZON.....CHECK
 FLIGHT CONTROLS.....CHECK
 DIRECTIONAL GYRO.....SET

ENGINE RUNUP

MIXTURES.....RICH
 THROTTLES.....1800
 PROPELLERS:
 CYCLE (3X IF COLD, 1X IF HOT)
 MAGNETOS.....CHECK
 CARBURATOR HEAT.....CHECK
 GENERATORS.....CHECK
 ENGINE INSTRUMENTS.....CHECK
 SUCTION.....CHECK
 FUEL PRESSURE.....CHECK
 THROTTLES.....IDLE then 1,000 RPM
 MIXTURES.....LEAN

TAKE OFF BRIEF TOPICS:

-PILOT FLYING
 -RUNWAY IDENTIFIER, LENGTH AND CONDITIONS (WET/DRY ETC)
 -TYPE OF TAKE OFF (SHORT FIELD, NORMAL ETC)
 -Vr, Vx, Vy
 -CONFIGURATION USED
 -GO/NO-GO PLAN
 -REVIEW EMERGENCY PROCEDURE FOR ENGINE FAILURE

BEFORE TAKE OFF

PROPELLERS.....FULL FORWARD
 MIXTURES.....FULL FORWARD or MAX PERF
 DIRECTIONAL GYRO.....AGREES WITH RWY
 HEADING BUG.....SET FOR DEPARTURE
 TRIMS.....SET
 FLAPS.....UP
 FUEL SELECTORS.....MAIN TANKS
 FUEL PUMPS.....ON
 MAGNETOES.....ALL ON
 LANDING LIGHTS.....ON
 DOOR.....LOCKED
 -DO NOT SLAM DOOR SHUT-
 TAKE OFF BRIEF.....COMPLETE
 V SPEEDS.....REVIEW
 TRAFFIC.....CHECK

Vso.....59 mph
 Vs1.....64 mph
 Vr.....80 mph
 Vx.....76 mph
 Vmc.....85 mph
 Vyse.....95 mph
 Vy.....100 mph
 Cruise Climb.....120 mph
 Va.....140 mph

MANEUVERS CHECKLIST

ENGINE INSTRUMENTS.....WITHIN PARAMETERS
 PROP LEVERS.....FULL FWD
 MIXTURES.....RICH or AS REQUIRED
 FUEL PUMPS.....BOTH ON
 WORKING AREA.....CLEAR OF TRAFFIC / CLOUDS
 DIRECTIONAL GYRO.....SET HEADING BUG
 ALTITUDE / SPEED.....PROPER PARAMETERS

WHILE TAXING DO NOT RIDE THE BRAKES



CHECKLIST - PIPER PA-23-160 N4451P

Does not substitute Aircraft Flight Manual

CLIMB (passing 1,000' agl)	
LANDING GEAR.....	CHECK UP
FLAPS.....	UP
POWER.....	SET 25 MAP
PROPELLER.....	2400 RPM
MIXTURES.....	LEAN AS REQUIRED
ENGINE INSTRUMENTS.....	NORMAL
BOOST PUMPS.....	OFF
LANDING LIGHTS.....	AS REQUIRED

CRUISE	
ALTIMETERS.....	SET
MIXTURES.....	LEAN AS REQUIRED
CARB HEATS.....	ON (if icing conditions exist)
FUEL QUANTITY.....	CHECKED
LIGHTS.....	AS REQUIRED

DESCENT	
ATIS / ASOS.....	OBTAIN
AVIONICS.....	TUNED AND SET
APPROACH BRIEF.....	COMPLETE
ALTIMETERS.....	SET
FUEL TANK SELECTOR.....	MAINS
CROSSFEED.....	OFF
MIXTURES.....	RICH AS APPROPRIATE
CARBURATOR HEATS.....	AS REQUIRED
FLAPS.....	AS REQUIRED <125 MPH
PTN SPEED.....	.95 MPH

APPROACH	
ALTIMETERS.....	SET
FUEL PUMPS.....	ON
FUEL TANK SELECTORS.....	MAIN
CROSSFEED.....	OFF
MIXTURES.....	FULL RICH
FLAPS.....	AS REQUIRED < 125 mph

BEFORE LANDING / FINAL APPROACH FIX	
LDG GEAR.....	DOWN/3 GREEN ONE IN MIRROR
PROPELLERS.....	FULL FORWARD or AS REQUIRED
FLAPS.....	AS REQUIRED
LANDING LIGHT.....	ON
SHORT FINAL.....	CARBURATOR HEATS OFF

AFTER LANDING	
MIXTURES.....	LEAN
FLAPS.....	UP
LANDING LIGHT.....	AS REQUIRED
FUEL PUMPS.....	OFF
TRIMS.....	SET

SHUTDOWN	
NAV LIGHTS.....	OFF
AVIONICS MASTER.....	OFF
TURN COORDINATOR.....	OFF
FUEL PUMPS.....	OFF
LANDING LIGHT.....	OFF
PROP LEVERS.....	FULL FORWARD
THROTTLES.....	1,000 RPM
MAGNETOES.....	OFF BRIEFLY TO CHECK GROUND - BOTH ENGINES
MIXTURES.....	OFF
THROTTLES.....	CUT OFF
MAGNETOES.....	ALL 4 OFF
ROTATING BEACON (STROBES).....	BOTH OFF
HEATER KNOB.....	OFF
HEATER FUEL VALVE.....	OFF
MASTER SWITCH.....	OFF
WINDOW.....	CLOSED
FLIGHT CONTROLS.....	LOCK WITH SEAT BELT
PITOT COVER.....	INSTALL

HEATER OPERATIONS	
TO TURN HEATER ON PROCEED AS FOLLOWS:	
HEATER FUEL VALVE.....	OPEN*
*gently counterclockwise until it stops	
FUEL PUMP.....	LEFT - ON
HEATER KNOB.....	TURN TO PRIME FOR 30 SECONDS
HEATER KNOB.....	TURN TO HIGH*
*warmer air should be felt through floor vents and defrost within 1-2 mins	
HEATER KNOB.....	HIGH OR LOW AS NEEDED
TO TURN HEATER OFF PROCEED AS FOLLOWS:	
HEATER KNOB.....	TURN TO LOW THEN OFF*
*do not turn master switch to off for 2 minutes to allow heater cool down	
HEATER FUEL VALVE.....	CLOSED*
*gently clockwise until it stops	

ABNORMAL/EMERGENCY OPERATIONS	
ENGINE FAILURE	
SPEED.....	VYSE Minimum
THROTTLES, MIXTURES, PROP LEVERS.....	ALL FWD
FLAPS AND GEAR.....	RETRACTED
FUEL SELECTORS / BOOST PUMPS.....	OPEN / ON
IDENTIFY - VERIFY - *FEATHER	
TROUBLESHOOT BEFORE FEATHER IF TIME / ALTITUDE ALLOW**	
**ENGINE TROUBLESHOOT	
FAILED ENGINE...CARB. HEAT: ON / FUEL SEL.: SWITCH TANK / MAGS TRY ONE AT TIME / IF FUEL PRESS LOW: CROSSFEED	
CHECK FOR ENGINE POWER EACH TIME A CHANGE IS MADE	
IF NO POWER IS RESTORED ON FAILED ENGINE - PROCEED WITH FEATHER	
SECURING ENGINE	
FAILED ENGINE...MAGS OFF / GEN OFF / *FUEL SEL. OFF / *FUEL PUMPS OFF	
*UNLESS FUEL CROSSFEED IS REQUIRED	
ENGINE RESTART/UNFEATHER	
FAILED ENGINE..MAGS: ON / GEN ON / FUEL ON / FUEL PUMP ON	
THROTTLE.....	1/8 INCH FWD
PROPELLER.....	MATCH THE OTHER
MIXTURE.....	RICH
STARTER.....	ENGAGE
ENGINE.....WARM UP FOR ONE MINUTE BEFORE APPLYING FULL PWR	
PROP, MIXTURE, THROTTLES, FUEL PUMPS.....AS REQUIRED	
FUEL CROSSFEED	
FUEL SELECTOR INOP ENGINE.....	ON (MAIN OR AUX)
BOOST PUMP INOP ENGINE.....	ON
CROSSFEED VALVE.....	ON
FUEL SELECTOR AND BOOST PUMP OP ENGINE.....	OFF
FUEL PRESSURE.....	WITHIN PARAMETERS
LANDING GEAR MANUAL EXTENSION / RETRACTION	
LANDING GEAR LEVER.....	UP OR DOWN AS REQUIRED
HYD HAND PUMP.....	*EXTEND LEVER AND PUMP
*Approx 30-40 strokes are required to LOWER or RETRACT the gears	
LANDING GEAR EMERGENCY EXTENSION	
LANDING GEAR LEVER.....	DOWN
EMERGENCY GEAR EXTENDER LEVER (CO2).....	PULL
DO NOT OPERATE LANDING GEAR AFTER EMERGENCY EXTENSION	
FLAPS ALTERNATE OPERATION	
FLAP LEVER.....	AS REQUIRED
HYD HAND PUMP.....	*EXTEND LEVER AND PUMP UNTIL DESIRED POSITION IS OBTAINED
FLAP LEVER. NEUTRAL IF INTERMEDIATE FLAP POSITION IS REQUIRED	
*Approx 12 strokes are required to fully LOWER or RETRACT the FLAPS	