

PIPER SENECA I

Vso	69MPH
Vs1	76MPH
Vmc	80MPH
Vr	(Vmc + 5MPH)..... 85MPH
Vsse	90MPH
Vx	(Single Eng - 93MPH)..... 90MPH
Vy	(Single Eng - 105MPH).... 105MPH
Vfe	125MPH
Va	(Gross)..... 146MPH
Vlo	150MPH
Vno	190MPH
Vne	217MPH

POWER PLANT DATA

LYCOMING.....(1) IO-360, (1) LIO-360	
MAX GROSS WEIGHT.....	4200LBS
FUEL BURN.....	20GPH

APPROACH SPEEDS (BLUE LINE)

BLUE LINE UNTIL LANDING ASSURED	105MPH
FLAPS DOWN - LANDING ASSURED	87-95MPH

PRE - FLIGHT COCKPIT INSPECTION

DOCUMENTS ON BOARD - AROW.....	CHECK
MASTER.....	ON
FUEL QUANTITY.....	CHECK
COWL FLAPS.....	OPEN
MASTER SWITCH.....	OFF
CONTROL LOCK.....	REMOVE

EXTERIOR INSPECTION

RIGHT WING.....	CHECK
(CONTROL SURFACES,PITOT,FUEL QTY/SUMP)	
RIGHT MAIN GEAR.....	CHECK
(STRUT,BOLTS,BRAKE LINES, TIRE COND.)	
ENGINE COMPARTMENTS (L/R).....	CHECK
(CLEAN,OIL QTY,/LEAKS,FUEL STRAIN,NESTS)	
NOSE GEAR.....	CHECK
(STRUT,TIRE,NUTS,BOLTS)	
PROPELLER.....	CHECK
(NICKS,DENTS,TIGHTNESS,ETC)	
LEFT WING.....	CHECK
(CONTROL SURFACES,PITOT,FUEL QTY/SUMP)	
LEFT MAIN GEAR.....	CHECK
(STRUT,BOLTS,BRAKE LINES, TIRE COND.)	
FUSELAGE LEFT SIDE (CONDITION).....	CHECK
TAIL SECTION(COND.HINGES, ETC.).....	CHECK
FUSELAGE RIGHT SIDE (COND.).....	CHECK

BEFORE STARTING CHECKLIST

PASSANGER BRIEF (SAFEST).....	DONE
GEAR HANDLE.....	DOWN & LOCKED
COWL FLAPS.....	OPEN
SEAT / SEAT BELTS.....	SECURE
ELECTRICAL EQUIPMENT.....	OFF
AVIONICS MASTER.....	OFF
CIRCUIT BREAKERS.....	IN
FUEL SELECTORS.....	ON
FLAPS.....	UP
VOLTAGE REG. / ALTERNATORS.....	ON

ENGINE STARTING CHECKLIST

BRAKES.....	SET
COWL FLAPS.....	OPEN
THROTTLE.....	OPEN 1/2"
MIXTURE / PROPS.....	FWD
MASTER.....	ON
MAGS (IGNITION).....	ON
FUEL PUMPS (PRIME).....	ON - FUEL FLOW
FUEL PUMPS.....	OFF
AREA.....	CLEAR
STARTER / MIXTURE.....	ENGAGE / ADVANCE
THROTTLE.....	IDLE (1000RPM)
OIL PRESSURE.....	CHECK
ALTERNATOR(S).....	CHECK
VACUUM.....	CHECK
LIGHTS.....	AS REQ.
FUEL SELECTORS.....	CROSSFEED
AV MASTER.....	ON

ENGINE RUN-UP CHECKLIST

BRAKES.....	SET
DOORS / WINDOWS.....	CLOSED / LOCKED
FLIGHT CONTROLS (FREE CLEAR CORRECT).....	CHECK
FUEL SELECTORS.....	ON
MIXTURE / PROPS.....	AS REQ / FWD
THROTTLE.....	1500RPM
PROPELLERS (FEATHER).....	EXERCISE / FWD
THROTTLE.....	2000RPM
PROPELLERS (GOVERNOR).....	EXERCISE / FWD
MAGNETOS (MAX DROP 175RPM/ DIFF 50RPM).....	CHECK
ALTERNATE AIR.....	CHECK
VACUUM.....	CHECK
AMMETER / WARNING LIGHTS.....	CHECK
THROTTLE.....	IDLE
TRIM / FLAPS / COWL FLAPS.....	SET
ENGINE INSTRUMENTS.....	CHECK
FLIGHT INSTRUMENTS.....	CHECK

BEFORE TAKE-OFF CHECKLIST

LIGHTS.....	AS REQ
TRANSPONDER.....	ON ALT
FUEL PUMPS.....	ON
MIXTURES.....	AS REQ
EMERGENCY DEPARTURE BRIEF.....	DONE
AREA.....	CLEAR

NORMAL TAKE-OFF

FLAPS.....	UP
MIXTURES.....	AS REQ
PROPELLERS.....	FWD
THROTTLE.....	MAX PWR
ROTATE.....	80-85MPH
POSITIVE RATE / NO USEABLE RWY.....	GEAR UP
LANDING LIGHT.....	OFF
CLIMB SPEED (Vx 90MPH).....	105MPH
CRUISE CLIMB SPEED.....	120MPH

PIPER SENECA I

CLIMB CHECKLIST (500 FEET)

POWER.....	25" MAX
PROPELLERS.....	2500 MAX
MIXTURE.....	SET
FUEL PUMPS (ONE AT A TIME).....	OFF
FUEL FLOW.....	CHECK
LANDING LIGHT.....	CHECK

CRUISE

POWER.....	20"
PROPELLERS.....	2300 - 2400
MIXTURE.....	SET
FUEL PUMPS.....	OFF
FUEL FLOW.....	CHECK
LANDING LIGHTS.....	OFF
COWL FLAPS.....	CLOSED

DESCENT

FLIGHT INSTRUMENTS.....	SET
MIXTURE.....	ADJUST
POWER.....	AS REQ
FUEL SELECTORS.....	PROPER TANKS
RADIOS / INSTRUMENTS.....	SET

BEFORE LANDING

SEATS / SEAT BELTS.....	SECURE
FUEL PUMPS.....	ON
FUEL SELECTORS.....	PROPER TANKS
MIXTURE.....	AS REQUIRED
GEAR.....	DOWN / LOCKED
LIGHTS.....	ON AS REQ
PROPELLERS (SHORT FINAL).....	FWD
GUMPS.....(GAS,UNDER,MIX,PROPS,SWITCH(S))	

NORMAL LANDING

APPROACH SPEED.....	105MPH
LANDING ASSURED.....	87 - 95MPH

SHORT FIELD LANDING

APPROACH SPEED.....	87 - 95MPH
FLAPS.....	FULL
THROTTLES (AFTER OBSTACLES).....	IDLE
FLAPS.....	RETRACT
BRAKES.....	APPLY

BALKED LANDING PROCEDURES

THROTTLES.....	FULL
PROPELLERS.....	CHECK / FWD
POSITIVE RATE OF CLIMB.....	GEAR UP
CLIMB.....(V _{xse}) 93MPH - (V _x) 90MPH.....	105MPH
FLAPS (AFTER OBSTACLES).....	RETRACT
COWL FLAPS.....	AS REQ / OPEN

AFTER LANDING CHECKLIST

CLEAR OF RUNWAY.....	THEN
TRIM.....	SET
COWL FLAPS.....	OPEN
MIXTURE.....	SET
TRANSPONDER.....	STBY
FUEL PUMPS.....	OFF
LIGHTS.....	AS REQ.

SHUT DOWN CHECKLIST

ELECTRICAL EQUIPMENT.....	OFF
MIXTURES.....	IDLE-CUTOFF
MAGNETOS.....	OFF
MASTER SWITCH.....	OFF
ALTERNATORS.....	OFF
HOBBS.....	RECORD
CONTROL LOCK.....	AS REQ

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FUEL PUMPS (ONE AT A TIME).....	OFF
FUEL FLOW.....	CHECK
LANDING LIGHT.....	CHECK

CRUISE

POWER.....	20"
PROPELLERS.....	2300 - 2400
MIXTURE.....	SET
FUEL PUMPS.....	OFF
FUEL FLOW.....	CHECK
LANDING LIGHTS.....	OFF
COWL FLAPS.....	CLOSED

DESCENT

FLIGHT INSTRUMENTS.....	SET
MIXTURE.....	ADJUST
POWER.....	AS REQ
FUEL SELECTORS.....	PROPER TANKS
RADIOS / INSTRUMENTS.....	SET

BEFORE LANDING

SEATS / SEAT BELTS.....	SECURE
FUEL PUMPS.....	ON
FUEL SELECTORS.....	PROPER TANKS
MIXTURE.....	AS REQUIRED
GEAR.....	DOWN / LOCKED
LIGHTS.....	ON AS REQ
PROPELLERS (SHORT FINAL).....	FWD
GUMPS.....(GAS, UNDER, MIX, PROPS, SWITCH(S))	

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FLAPS.....	RETRACT
BRAKES.....	APPLY

BALKED LANDING PROCEDURES

THROTTLES.....	FULL
PROPELLERS.....	CHECK / FWD
POSITIVE RATE OF CLIMB.....	GEAR UP
CLIMB.....(V _{XSE}) 93MPH - (V _X) 90MPH..	105MPH
FLAPS (AFTER OBSTACLES).....	RETRACT
COWL FLAPS.....	AS REQ / OPEN

SHUT DOWN CHECKLIST

ELECTRICAL EQUIPMENT.....	OFF
MIXTURES.....	IDLE-CUTOFF
MAGNETOS.....	OFF
MASTER SWITCH.....	OFF
ALTERNATORS.....	OFF
HOBBS.....	RECORD
CONTROL LOCK.....	AS REQ

AFTER LANDING CHECKLIST

CLEAR OF RUNWAY.....	THEN
TRIM.....	SET
COWL FLAPS.....	OPEN
MIXTURE.....	SET
TRANSPONDER.....	STBY
FUEL PUMPS.....	OFF
LIGHTS.....	AS REQ.