# **Pilot's Checklist**



PIPER SENECA PA-34-200

### **REVISIONS**

Changes and/or additions in this checklist will be covered by Owner Advisories published by the Piper Aircraft Corporation. It is the responsibility of DSU to maintain this checklist in a current status when it is used for operational purposes. Additional checklist procedures may be inserted within the manufacture's procedures by DSU Flight Operations

A revision bar will extend the full length of new or revised text and/or illustrations added on new or existing pages. This Bar will be located adjacent to the applicable revised area on the outer margin of the page. All revised pages will carry the date of the revision on the applicable page.

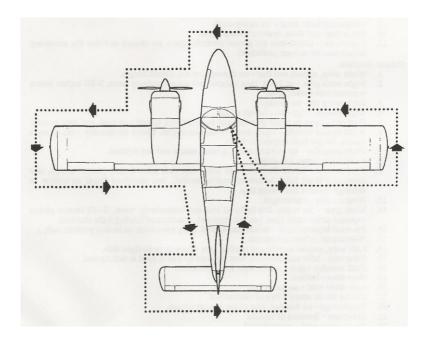
### LOG OF REVISIONS

<u>Revision</u>	<u>Date</u>
Original Issue	October 31,2012

ALL REFERENCES TO SECTIONS THROUGHOUT THIS CHECKLIST PERTAIN TO THE APPROPRIATE SECTION OF THE PILOT'S OPERATING MANUAL, OPERATING INSTRUCTIONS SECTION.



### NORMAL PROCEDURES



Visually check airplane for general condition during walkaround inspection. In cold weather, remove even the smallest of accumulations of frost, ice or snow from wing, tail and control surfaces. If a night flight is planned, check operation of all lights and ensure a flashlight is available. For detailed information and explanation of these procedures, refer to the Airplane Flight Manual, Operating Instructions

Procedures in the following Normal checklist shown in **bold-faced** should be committed to memory.



# PREPARATION

Flight LogCH	ECK FOR OPEN SQUAWKS
Hobbs/Tach Meters	
100 Hour/Annual Insp/VOR	CHECK
Required Papers	ON BOARD
Weather	SUITABLE
Baggage	. WEIGHED, STOWED, TIED
Weight and C.G	WITHIN LIMITS
Navigation	PLANNED
Charts and navigation equipm	entON BOARD
Performance and range	COMPUTED AND SAFE

# PREFLIGHT CHECK

# COCKPIT

Control Wheel	RELEASE BELT
Landing Gear Handle	DOWN
Parking Brake	SET
Avionics	OFF
All Switches	
Magneto Switches	OFF
Master Switch	
Landing Gear Lights	3 GREEN NO RED
Fuel Quantity Gauges	CHECK
Cowl Flaps	
Internal Lights	
External Lights	
Stall Warning Horns	
Pitot Heat	CHECK
Master Switch	OFF
Mixture	IDLE CUT-OFF
Trim	
Flaps	EXTEND FULL DOWN



Flight Controls
Right Wing
Surface Condition
Main Gear ComponentsCHECK Main Gear DoorsSECURE



# Nose Section

Windshield Nose Gear Components Landing/Taxi Lights Nose Gear Doors Nose Gear Strut Chock Tire Forward Baggage Door	CHECK CLEAN CHECK CHECK SECURE EXTENDED 2 ½ INCHES REMOVE CHECK CHECK/SECURE/LOCK CLOSED
Left Wing	
Chock	REMOVE
	CHECK
	EXTENDED 3 ½ INCHES
	CHECK
	CHECK
	CHECK
Main Gear Doors	SECURE
	OPEN AND INSPECT
Engine Oil	CHECK 6-8 QUARTS
Engine Nacelle	SECURE
Propeller and Spinner	CHECK
	REMOVE
Air Intakes	UNOBSTRUCTED
Cowl Flaps	OPEN AND SECURE
Gascolator	DRAIN AND CHECK
Fuel Tank	VISUALLY CHECK SUPPLY
Fuel Vents	CHECK OPEN

Tank Sumps ...... DRAIN CHECK FOR WATER

SEDIMENT AND PROPER FUEL



Aileron, Hinges and Actual Flap, Hinges and Actuato	CHECK atorCHECK rCHECK CHECK
	FREE OF ICE, SNOW, FROST
Fuselage, Left Side	
Antennas Side Windows Left Static Vent	FREE OF ICE, SNOW, FROSTSECURECLEANCLEARSECURE
Empennage	
Fresh Air Inlet Stabilator Trim and Push Rudder and Stabilator Hir	FREE OF ICE, SNOW, FROSTUNOBSTRUCTED RodCHECK ngesCHECKREMOVE
Fuselage, Right Side	
AntennasRight Static Vent	FREE OF ICE, SNOW, FROST SECURE CLEAR



# **Before Starting Engines**

Passengers	BRIEFED
Seats	ADJUSTED
Cabin DoorCLOSE and SECURE	AS REQUIRED
Belts and HarnessesFAST	ENED - CHECK
	<b>INERTIA REEL</b>
Parking Brake	SET
Cabin Fan	
Fuel Selectors	
Circuit Breakers	IN
Avionics Switch	OFF
Cowl Flaps	OPEN
Alternate Air	OFF
Anti-Collision Light	ON
Alternators	

# Starting Engines when COLD

### **NOTE**

To prevent starter damage, limit starter cranking to 30-second periods. If the engine does not start within that time, allow a cooling period of several minutes before engaging starter again. Do not engage the starter immediately after releasing it.

Mixture Controls	IDLE CUT-OFF
Throttle Controls	OPEN ½ INCH
Propeller Controls	FULL FORWARD
Master/Battery Switch	ON
	ON
	ON
	RICH POSITION UNTIL
	FUEL FLOW then IDLE CUT-OFF
Electric Fuel Pump	OFF
	CLEAR



Mixture Throttle Oil Pressure	ENGAGE ADVANCE AS ENGINE STARTSSET TO 1,000 RPMCHECK UENCE FOR #2 ENGINE
Electric Fuel Pumps	OFF, CHECK PRESSURE
Starting Engine whe	n HOT
Throttle Controls Propeller Controls Master/Battery Switch Magneto Switches Electric Fuel Pumps Propeller Area Starter Mixture	IDLE CUT-OFF

### **NOTE**

Oil Pressure......CHECKED

REPEAT SEQUENCE FOR #2 ENGINE

If an engine does not start with the above method, which omits the priming, use the normal Starting Engine when COLD procedure, which includes priming

# Starting Engine when FLOODED

Mixture Control	IDLE CUT-OFF
Throttle	FULL FORWARD
Propeller Control	FULL FORWARD
Master/Battery Switch	ON
Magneto Switches	
Electric Fuel Pump	OFF



Propeller Area	
Starting Engine with EXTERNAL POWER	
Master/Battery Switch         OFF           Terminals         CONNECT           RED LEAD to POS (+)         BLACK LEAD to NEG (-)           Master/Battery Switch         ON           Magneto Switches         ON           Engine         START           Master/Battery Switch         OFF           External Power         DISCONNECT           Master/Battery Switch         ON	
NOTE  Do not attempt flight if there is no indication of alternator output	
Warm-UP Checklist	
Throttle	



# Pre-Taxi Checklist

Fuel Pump	OFF, CHECK PRESSURE
Avionics Switch	ON
Mixture	LEAN FOR TAXI
Transponder	ALT
ATIS/Airport Info	RECEIVED
Altimeter	SET
Heading Indicator	CHECK TO COMPASS
Departure Clearance	RECEIVED
Transponder	SET
Nav Radios	SET
Comm Radios	SET
Taxi Light	AS REQUIRED

# Taxi Checklist

Taxi Area	CLEAR
Parking Brake	RELEASE
Throttle	APPLY SLOWLY
Brakes	CHECK
Steering	CHECK
	SWINGS FREELY
Attitude Indicator	ERECT
Turn Coordinator	SHOWS TURN DIRECTION
Ball & Inclinometer	MOVES TO OUTSIDE OF TURN
Left Fuel Selector	CROSSFEED (1 min) then ON
Right Fuel Selector	CROSSFEED (1 min) then ON

### **NOTE**

Do not attempt takeoff with fuel selectors on crossfeed



# **Ground Runup Checklist**

Fuel Selectors Mixture	SET ON FORWARD FULL FORWARD 1500 RPM FEATHER then FULL FORWARD 2000 RPM RETARD 200-300 RPM INCREASE SLIGHTLY FULL FORWARD CHECK MAX DROP 175; MAX DIFF. 50 RPM CHECK NO LIGHTS, 4.5 to 5.2 in HG
Parking Brake	RELEASE
Pre-Takeoff Che	cklist
Fuel Selectors Alternator Switches	ON
Engine Gauges	CHECK
	SET
	FULL FORWARD
	ADJUST
	OFF
	SET
Seat Backs	ERECT
	FASTENED/CHECK
	SET
l rim	2
	SET
Controls	FREE
Controls Electric Fuel Pumps	



# Takeoff Briefing

Takeoff Procedure Takeoff Emergencies	BRIEF
Eng Failure Considerations	BRIEF
When Cleared for Takeoff	
Strobe	ON
Landing/Taxi	
Door and Window	

# Takeoff

## **NORMAL TAKEOFF**

Nose Wheel	STRAIGHT
Directional Gyro	CHECKED TO RWY HDG
Brakes	APPLY AND HOLD
Throttle	2,000 RPM
Engine Gauges	. CHECKED AND SYMMETRICAL
Power	FULL ADVANCE
	RELEASED
Airspeed	ALIVE
Rotate	85 MPH
Gear	POSITIVE RATE – GEAR UP
Climb	105 MPH

# SHORT FIELD TAKEOFF (FLAPS UP)

Flaps	UP
Trim	SET
Nose Wheel	STRAIGHT
Directional Gyro	
Brakes	



Power	2,000 RPMCHECKED ALL GREENFULL ADVANCERELEASEDALIVE80 MPH85 MPHPOSITIVE RATE – GEAR UP90 MPH
OHORT TIEED TAREOTT (	23 1 EAI 0)
Trim  Nose Wheel  Directional Gyro  Brakes	25°SLIGHTLY NOSE UPSTRAIGHTCHECKED TO RWY HDGAPPLY AND HOLD
Throttle	2,000 RPM
	CHECKED ALL GREEN
	FULL ADVANCE
	RELEASED ALIVE
	70 MPH
	80 MPH
	POSITIVE RATE – GEAR UP
	RETRACT SLOWLY
-	90 MPH



# Climb

Throttles	25 INCH
Propellers	SYNC @ 2,500 RPM
Mixture	10 GPH
Flaps	UP
Electric Fuel Pumps	OFF @ 1,000 AGL
Lights	OFF
Cruise Climb	120 MPH

# Cruise Checklist

Throttles	ADJUST
Propeller	SYNC @ 2,400 RPM
	ADJUST
Cross feed	AS REQUIRED
Cowl Flaps	AS REQUIRED

# Maneuvers Checklist

Practice Area	CLEAR OF TRAFFIC
Airspeed	AT OR BELOW V <sub>A</sub>
Mixture	FORWARD
Propellers	FULL FORWARD
Electric Fuel Pumps	
Landing Light	
Cowl Flaps	

# Descent Checklist

ATIS/Airport Info	RECEIVED
Approach/Landing Brief	
Seat Backs	ERECT
Belts/Harnesses	FASTENED
Mixture	AS REQUIRED
Power	AS REQUIRED
Landing Light	ON

# Approach and Landing Checklist

## TO BE COMPLETED BY FAF OR 1,000 FT AGL

Fuel Selectors	ON
Electric Fuel Pumps	ON
Mixture	RICH
Propeller	FULL INCREASE
Landing Gear	DOWN -THREE GREEN
Flaps	SET – 160 MPH MAX
Flaps	AS REQUIRED
Final Approach Speed	105 MPH (FULL FLAPS)

# Go Around Checklist

Power	FULL FORWARD
Pitch	UP TO 10°
Flaps	RETRACT INCREMENTALLY
Landing Gear	POSITIVE RATE – GEAR UP
	105 MPH
Cowl Flaps	AS REQUIRED



# After Landing Checklist

When Off Runway	STOP AIRCRAFT
Flaps	UF
Cowl Flaps	Oper
Electric Fuel Pumps	
Exterior Lights	AS REQUIRED
Strobe Light	
Mixture	

# Parking Checklist

### **STOPPING ENGINES**

Parking Brake	SET
Propeller	FULL FORWARD
	OFF
Throttles	1000 RPM
Mixtures	IDLE CUT-OFF
Nav and Cockpit Lights	OFF
Anti-Collision Light	ON
	OFF
Master Switches	OFF
Alternator Switches	OFF
Parking Brake	RELEASE
	RECORD
Squawk Sheet	RECORD AND REPORT
	RESTRAIN
	TIED DOWN AND SECURE



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### **EMERGENCY PROCEDURES**

### **ENGINE FAILURES**

ENGINE FAILURE DURING TAKEOFF

ENGINE FAILURE DURING CLIMB

ENGINE FAILURE DURING FLIGHT

SINGLE ENGINE LANDING

SINGLE ENGINE GO AROUND

### **PROPELLER**

PROPELLER FEATHERING

PROPELLER UNFEATHERING

PROPELLER OVERSPEED

### **FIRES**

ENGINE FIRE DURING START

ENGINE FIRE IN FLIGHT

### **ELECTRICAL**

**ELECTRICAL FAILURES** 

**ELECTRICAL OVERLOAD** 

### **FNGINE**

ENGINE RESTART DURING FLIGHT

ENGINE SHUT-DOWEN DURING FLIGHT

VACUUM SYSTEM FAILURE

### LANDING GEAR

UNSAFE GEAR WARNING

MANUAL LANDING GEAR EXTENSION

**GEAR-UP LANDING** 

### ICING CONDITIONS

ENGINE FAILURE IN ICING

ALTERNATOR FAILURE IN ICING

Procedures in the following Emergency checklists shown in **bold-faced** type are immediate-action items which should be committed to memory.



### **ENGINE FAILURES**

# ENGINE FAILURE DURING TAKEOFF

## If During Takeoff Roll and <100 MPH

ThrottlesCLOSE	IMMEDIATELY	
3top	STRAIGHT AHLAD	
If Inadequate Runway Remains to S	top	
Throttles	PLY MAX BRAKING OFF OFF	
If Adequate Runway Remains and >100 MPH		
ThrottlesCLOSE	BOTH THROTTLES IMMEDIATELY	
Land (If Airborne)STOP		
If Inadequate Runway Remains and (Takeoff Continued)	>100 MPH	
MaintainHEADI GearRETI	RACT WHEN CLIMB ESTABLISHED	
Inoperative Engine (Confirm)	FEATHER	

Go To PROPELLER FEATHERING



### **ENGINE FAILURES** (Continued)

# ENGINE FAILURE DURING CLIMB

IF < 80 MPH	
Power	REDUCE
Accelerate	105 MPH
Mixtures	FULL FORWARD
Propellers	FULL FORWARD
Throttles	FULL FORWARD
Bank5° INT	O OPERATING ENGINE
Flaps	UP
Inoporative Engine (Confirm)	

### Go to PROPELLER FEATHERING

IF > OU WIPH	
Maintain	DIRECTIONAL CONTROL
Airspeed	105 MPH
Mixtures	FULL FORWARD
Propellers	FULL FORWARD
Throttles	FULL FORWARD
Bank	5° INTO OPERATING ENGINE
	UP
	onfirm)FEATHER

### Go to **PROPELLER FEATHERING**

## ENGINE FAILURE DURING FLIGHT

Airspeed	105 MPH
	FULL FORWARD
Propellers	FULL FORWARD
-	FULL FORWARD
Bank	5° INTO OPERATING ENGINE

### Go to PROPELLER FEATHERING



### **ENGINE FAILURES** (Continued)

### NOTE

The single engine minimum control speed with Rear Cabin and Cargo Doors removed is 81 MPH. If engine failure occurs in this configuration and below 81 MPH, reduce power as necessary on the operating engine to maintain directional control.

# SINGLE ENGINE LANDING

Inoperative Engine	FEATHERED
	. DOWN (when LANDING ASSURED
	25° (when LANDING ASSURED)
Final Approach Speed	l105 MPH

# SINGLE ENGINE GO-AROUND

Throttle	FULL FORWARD
Flaps	RETRACT
Landing Gear	RETRACT
	105 MPH
Trim	SET
Cowl Flap	AS REQUIRED

### CAUTION

This procedure must be initiated at or above 400 feet AGL or it may not be successfully completed.



### **PROPELLER**

# PROPELLER FEATHERING

Minimum Control Speed	80 MPH
Airspeed (VYSE)	105 MPH
MaintainDIRECTIONAL C	ONTROL (90 MPH MIN)
Flaps	RETRACT
Gear	RETRACT
Electric Fuel PumpOPE	
Inoperative Engine	IDENTIFY
Throttle Inoperative Engine	RETARD TO VERIFY
Propeller Inoperative Engine	
Mixture Inoperative Engine	IDLE CUT-OFF
Trim	AS REQUIRED
Bank5° TOWARI	O OPERATING ENGINE
Electric Fuel Pump Inoperative Eng	gine OFF
Magnetos Inoperative Engine	OFF
Cowl Flaps Inoperative Engine	CLOSE
Cowl Flaps Operative Engine	
Alternator Inoperative Engine	OFF
Fuel Selector Inoperative Engine	OFF
Crossfeed	AS REQUIRED
Electric Fuel Pump Operative Engil	
Electrical LoadRI	EDUCE < 50 AMPERES

## Go To SINGLE ENGINE LANDING

# PROPELLER UNFEATHERING

Fuel Selector	INOPERATIVE ENGINE - ON
Electric Fuel Pump	INOPERATIVE ENGINE - OFF
Throttle	OPEN 1/4 INCH
Propeller	FORWARD, CRUISE RPM

(Continued on next page)



# **PROPELLER** (Continued)

	RICH
	ENGAGE UNTIL PROP WINDMILLS
Throttle	REDUCE UNTIL ENG WARMS
If Engine Starts	
Alternator	ON
If Engine Does Not	
Electric Fuel Pump	INOPERATIVE ENGINE – ON
	3 SECONDS then OFF
	ENGAGE UNTIL PROP WINDMILLS
	REDUCE UNTIL ENG WARMS
Alternator	ON

## If Unable To Start Engine

Go To **PROPELLER FEATHERING** 

(Continued on next page)



## **PROPELLER** (Continued)

## PROPELLER OVERSPEED

Throttle	CLOSE
Airspeed	105 MPH
	LOW RPM
Throttle	SLOWLY INCREASE
Propeller	SLOWLY INCREASE

### CONTINUE FLIGHT AT REDUCED SPEED AND POWER. LAND AS SOON AS PRACTICAL

### NOTE

Loss of air charge in the propeller dome may result in overspeed if throttle is advanced rapidly or airspeed is abruptly increased. If this happens, the propeller will not feather.

If the throttle is retarded below 15-20 inch manifold pressure at speeds above 105 MPH, the propeller may overspeed again upon reapplying power.

### **FIRES**

## ENGINE FIRE DURING START

Starter	CRANK ENGINE
Mixture	IDLE CUT-OFF
Throttle	OPEN
Electric Fuel Pump	OFF
Fuel Selector	

### ABANDON IF FIRE CONTINUES



# ENGINE FIRE ON THE GROUND

if Engine has not Started	
Mixture	IDLE CUT OFF
Throttle	OPEN

Engine Starter ..... ENGAGE

If engine has started and is running, continue operating. If fire continues longer than a few seconds, the fire should be extinguished by the best available external means.

## If External Fire Extinguishing is to be Applied

Fuel Selector Valves	OFF
MixtureIDLE C	UT OFF

## ENGINE FIRE IN FLIGHT

### AFFECTED ENGINE

Fuel Selector	OFF
Throttle	CLOSE
Propeller	
Mixture	IDLE CUT OFF
Heater	OFF
Defroster	OFF

LAND IMMEDIATELY AS TERRAIN PERMITS

Go To **PROPELLER FEATHERING** 



### **ELECTRICAL**

# ELECTRICAL FAILURE

(If in Icing Conditions, Go To Alternator Failure in Icing)

### LOSS OF OUTPUT FROM ONE ALTERNATOR

Electrical Load	REDUCE < 50 AMPERES
Circuit Breakers	CHECK
Alternator Switch	CYCLE
	OFF then ON
If power not restored	
Alternator Switch	OFF
Electrical Load	REDUCE < 50 AMPERES

#### LAND AS SOON AS PRACTICAL

### LOSS OF OUTPUT FROM BOTH ALTERNATORS

Electrical Load	REDUCE < 50 AMPERES
Circuit Breakers	CHECK
Alternator Switches	CYCLE

### If power not restored

Alternator Switches	OFF
Electrical Load	REDUCE TO MINIMUM

### WARNING

Compass error may exceed 10° with both alternators inoperative

#### CAUTION

If the battery is depleted, the landing gear must be lowered using the emergency extension procedure. The gear position lights will be inoperative

LAND AS SOON AS POSSIBLE



# **ELECTRICAL** (Continued)

# ELECTRICAL OVERLOAD

## ONE OVERVOLTAGE LIGHT ILLUMINATED

Alternator Switch  Overvoltage  AFFECTED	OFF EXCEPT MASTER SWITCH OFF VERIFY ALTERNATOR ON then OFF REDUCE < 50 AMPERES	
BOTH OVERVOLTAGE LIG	HT ILLUMINATED	
Alternator Switches	OFF EXCEPT MASTER SWITCH OFF CHECK	
EACH Least Overvoltage Alternator	ALTERNATOR ON then OFFONREDUCE < 50 AMPERES	
If Both Alternators Indicate < 50 Amperes Each		
	ON AS REQUIRED	



### **ENGINE**

## ENGINE RESTART DURING FLIGHT

### Go to PROPELLER UNFEATHERING

# ENGINE SHUT-DOWN DURING FLIGHT

Throttle	CLOSE
Propeller	FEATHER
Mixture	.VERIFY DESIRED ENGINE
	IDLE CUT-OFF
Magneto	.VERIFY DESIRED ENGINE
_	OFF
Electric Fuel Pump	OFF
Alternator	OFF
Cowl Flaps	CLOSE
Fuel Selector VERIF	TY DESIRED ENGINE - OFF
CROSSFEED	AS REQUIRED

# VACUUM SYSTEM FAILURE

Engine RPM	2700
Altitude	DECREASE

### NOTE

Use the Turn Indicator to monitor the Directional Gyro and Attitude Indicator performance



### LANDING GEAR

# UNSAFE GEAR WARNING

Landing Gear	RECYCLE
Landing	PLAN FOR NORMAL LANDING

### NOTE

The landing gear lights will illuminate when the gear warning horn sounds and the gear warning horn will sound at low throttle settings with the gear in the up and locked position

## MANUAL LANDING GEAR EXTENSION

Circuit Breakers	CHECK
Master Switch	ON
Alternators	CHECK
Navigation Lights	OFF
Airspeed	100 MPH
Landing Gear Handle	GEAR DOWN LOCKED
Emergency Extension Knob	PULL
Landing GearCHECK	- THREE GREEN LIGHTS

#### WARNING

If the emergency gear extension knob has been pulled out to lower the gear due to a gear system malfunction, leave the control in its extended position until the airplane has been put on jacks to check the proper function of the landing gears hydraulic and electrical systems.



# LANDING GEAR (Continued)

# GEAR-UP LANDING

Approach Speed	
When Landing Assured	
Throttles	CLOSE
Master Switch	OFF
Ignition Switch	OFF
Fuel Selector	
Airspeed	



### ICING CONDITIONS

# 

# ALTERNATOR FAILURE IN ICING

Circuit Prockers

Circuit breaker	S	
If Unable to R	estore Alternator	
Avionics		OFF
	EXCEPT ONE NAVO	OM AND XPONDER

Alternator Overvoltage Relay.....RESET

AVOID ICING CONDITIONS, LAND AS SOON AS PRACTICAL



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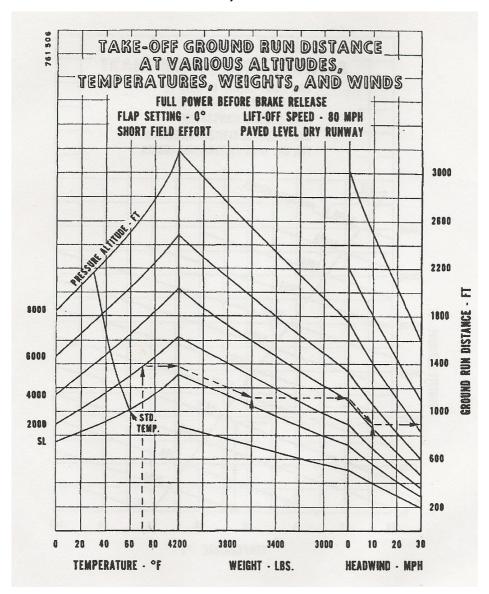
## **PERFORMANCE**

# Speeds are for Aircraft at Max Gross Weight

Takeoff			
	Rotation Speed (V <sub>R</sub> )	85 N	MPH
	Lift-Off (VLOF)	90 N	MPH
	Minimum Controllable (VMC)	80 N	MPH
Climb	· ,		
	Best Angle (Vx)	90 N	MPH
	Best Rate (V <sub>Y</sub> )	105 N	ИРН
	Cruise Climb	120 N	ΜРН
	Best Rate Single Engine (VYSE)	105 N	ΜРН
	Best Glide Speed (V <sub>G</sub> )	105 N	ΜРН
Landing A	pproach		
	Flaps 10 (VFE10)	160 N	ΜРН
	Flaps 25 (VFE25)	140 N	ΜРН
	Flaps 40 (VFE40)	125 N	ΜРН
Maneuvering Speed (VA) Turbulent Air Penetration Speed			
	4200 Lbs	146 N	ИРН
	2743 Lbs	133 N	ИРН
Stall Spee	eds		
	Stall Speed Flaps (Vso)	69 N	MPH
	Stall Speed Clean (Vs1)	76 N	MPH
Maximum	Speed		
	Normal Operation (VNO)	190 N	ИРН
	Landing Gear Extended (VLE)	150 N	ИРН
	Landing Gear Retraction Speed	125 N	ИРН
	Never Exceed Speed (VNE)	217 N	ИРН
Max Demo	onstrated X-Wind Component	15	5 Kts

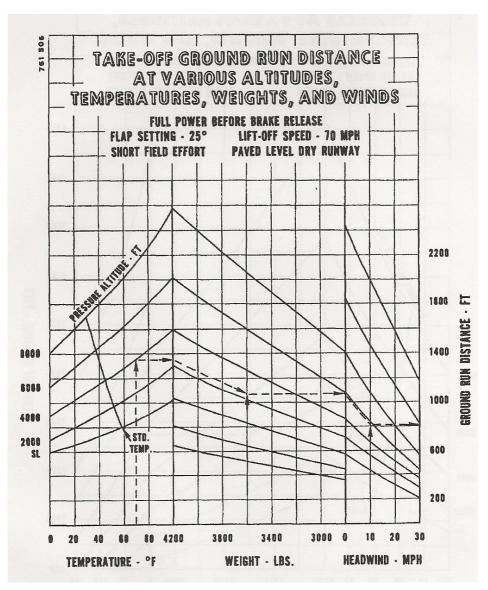


# NORMAL TAKEOFF, 0° FLAPS



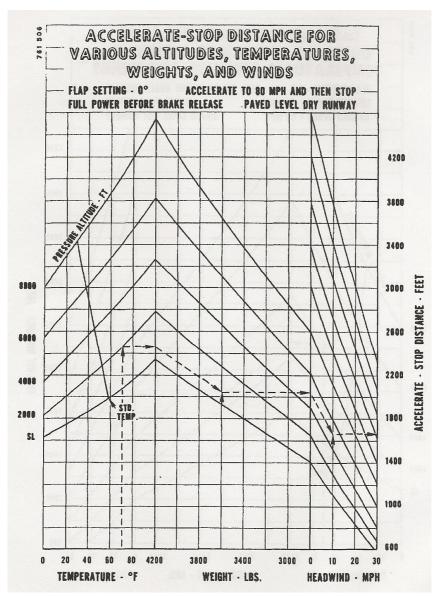


# SHORT FIELD TAKEOFF 25° FLAPS



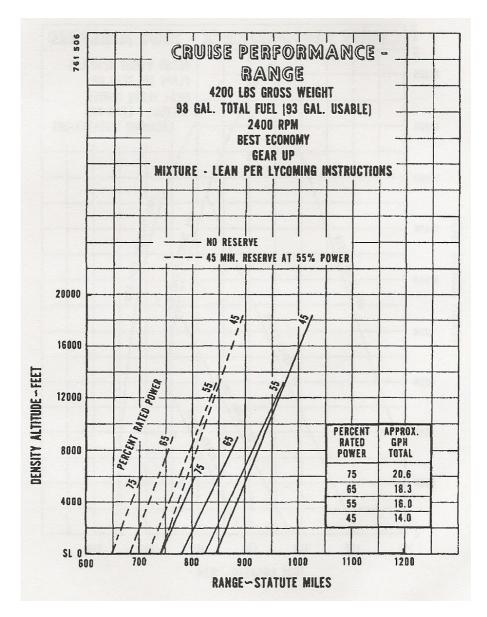


## **ACCELERATE-STOP DISTANCE**





## **CRUISE PERFORMANCE**





## LANDING PERFORMANCE

