N7720G (1970 CE-172L)



V Speeds

(Knots at Full Gross Weight: 2,300)

<u>Vr: 55</u>
<u>Vx: 62</u>
<u>Vy: 73</u>
<u>Vso: 50</u>
<u>Vs: 43</u>
<u>Vno: 126</u>
<u>Vne: 158</u>
<u>Vg: 68</u>
<u>Va:</u>
<u>2,300: 97</u>
<u>1,950: 89</u>
<u>1,600: 80</u>
<u>Vfe: 85</u>
Max Window Open: 158
Max Demonstrated Crosswind: 15

Normal Procedures

Preflight Inspection (Cabin)		
1. POH/Registration:	CHECK	
2. <u>Hobbs/Tach:</u>	CHECK	
3. <u>Control Wheel Lock:</u>	REMOVE	
4. <u>Fuel Selector:</u>	BOTH	
5. <u>Elevator Trim:</u>	SET FOR TAKEOFF	
6. Ignitions Switch:	OFF	
7. Avionics Power Switch:	OFF	
8. <u>Circuit Breakers:</u>	<u>CHECK</u>	
9. Master Switch:	ON	
10. <u>Fuel Quantity:</u>	<u>CHECK</u>	
11. <u>All Lights/Pitot Heat:</u>	CHECK	
12. <u>Flaps:</u>	LOWER	
13. <u>Master Switch:</u>	OFF	

Preflight Inspection (Empennage)		
1.	Tie Down:	REMOVE
2.	Control Surfaces: CHECK SURFACE/M	OVEMENT
3.	Bolts/Cotter Pins on Elevator and Rudder:	<u>CHECK</u>
4.	Static Wicks:	<u>CHECK</u>
5.	Antennas:	CHECK
6.	Lights:	<u>CHECK</u>

Preflight Inspection (Right Wing)		
1.	<u>Tiedown:</u>	REMOVE
2.	Flaps/Hinges:	CHECK
3.	Aileron/Hinges:	CHECK
4.	Surface Condition:	CHECK
5.	Wingtip/Lights:	CHECK
6.	Fuel Tank: CHE	CK QUANTITY/CAP
7.	Fuel Sump:	DRAIN
8.	Main Gear Tire/Brake Pads/Discs	: <u>CHECK</u>
9.	Door Hinge:	CHECK

Preflight Inspection (Nose)		
1. Engine Oil:	6-8 Quarts	
2. <u>Fuel Strainer:</u>	DRAIN	
3. <u>Propeller/Spinner:</u>	CHECK	
4. <u>Alternator Belt:</u>	CHECK	
5. Landing Light:	CHECK	
6. <u>Air Filter:</u>	CHECK	
7. Nose Wheel Strut/Tire:	<u>CHECK</u>	
8. <u>Cowling:</u>	<u>CHECK</u>	
9. <u>Static Port:</u>	CHECK	
10. Wheel Chocks:	REMOVE	

Preflight Inspection (Left Wing)

1.	Tiedown:	REMOVE
2.	Flaps/Hinges:	REMOVE
3.	Ailerons/Hinges:	CHECK
4.	Surface Condition:	<u>CHECK</u>
5.	Stall Warning Opening:	CHECK/TEST
6.	Wingtip Lights:	CHECK
7.	Fuel Tank:	CHECK QUANTITY/CAP
8.	Fuel Sump:	DRAIN
9.	Fuel Vent:	CHECK
10.	Main Gear Tire/Brake Pads/Disc:	CHECK

Before Starting Engine 1. Passenger Brief: a. PIC AUTHORITY b. DOOR c. SEATS/SEATBELTS d. FRESH AIR e. FIRE EXTINGUISHER f. EMERGENCY EXIT g. POSITIVE EXCHANGE OF FLIGHT CONTROLS h. STERILE COCKPIT i. QUESTIONS 2. <u>Seats/Seatbelts:</u> LOCKED/FASTENED 3. Brakes: **CHECK PRESSURE** 4. Fuel Selector: BOTH 5. Circuit Breakers: CHECK IN

 6.
 Electrical Switches:
 OFF

 7.
 Avionics Switch:
 OFF

Starting Engine

1.	Mixture:		RICH
2.	Carburetor Heat:		OFF
3.	Master Switch/Be	acon Light:	<u>ON</u>
4.	Prime:		AS REQUIRED
5.	<u>Throttle:</u>		<u>1/8 inch open</u>
6.	Propeller Area:		CLEAR
7.	Ignition Switch:	START (RELEASE W	<u>HEN ENGINE STARTS)</u>
8.	Oil Pressure:		CHECK
9.	Mixture:		LEAN AS REQUIRED
10.	<u>Throttle:</u>		<u>1,000 RPM</u>
11.	Amps/Volts:		<u>CHECK</u>
12.	Beacon/Navigatic	n/Strobe Lights:	ON AS NECESSARY
13.	Avionics Switch:		<u>ON</u>
14.	Radios:		ON

Hot Start

1.	Throttle:	<u>½" OPEN</u>
2.	Mixture:	IDLE CUTOFF
3.	Starter:	ENGAGE
4.	Mixture:	<u>RICH</u>
5.	Throttle:	REDUCE

Flooded

1.	Throttle:	FULL OPEN
2.	Mixture:	IDLE CUTOFF
3.	Starter:	ENGAGE
4.	Mixture:	RICH
5.	Throttle:	REDUCE

After Start Checklist

1.	Flaps:	UP
2.	Avionics:	<u>SET</u>
3.	Radios:	<u>SET</u>
4.	Weather:	AWOS/ATIS
5.	Altimeter:	SET
6.	Transponder:	<u>SET</u>
7.	Flight Instruments:	CHECK
8.	<u>Clearance:</u>	IFR/TAXI

Taxi Checklist

1.	Airport Diagram:	AVAILABLE
2.	Taxi Route:	BRIEF
3.	Taxi Area:	CLEAR
4.	Flight Controls:	POSITION FOR WIND
5.	Brakes:	TEST
6.	Flight Instruments:	CHECK

Run Up Checklist

1.	Brakes:	<u>SET</u>
2.	Doors/Windows:	CLOSED/LOCKED
3.	Flight Controls:	FREE/CORRECT
4.	Flight Instruments:	SET
5.	Fuel Selector Valve:	BOTH
6.	Mixture:	RICH
7.	Elevator/Rudder Trim:	SET FOR TAKEOFF
8.	Throttle:	<u>1,700 RPM</u>
9.	Magnetos:	125/50
10.	Carburetor Heat:	CHECK FOR RPM DROP
11.	Engine Instruments:	CHECK
12.	Ammeter/Voltmeter:	CHECK
13.	Idle Check:	CHECK
14.	Throttle:	1,000 RPM
15.	Throttle Friction Lock:	ADJUST

1. Type of Takeoff: BRIEF 2. Takeoff Briefing: a. PIC b. RUNWAY NUMBER c. RUNWAY DISTANCE d. TAKEOFF DISTANCE e. DEPARTURE BRIEF 3. Engine Failure a. Takeoff Roll i. Power: IDLE ii. Flaps: RETRACT iii. Directional Control: MAINTAIN iv. Brake: AS REQUIRED b. Below 1,000 ft AGL 68 kts ii. Mixture: IDLE CUTOFF iii. Fuel Selector: OFF vi. Ignition Switch: OFF vi. Master Switch: OFF vii. Dors: UNLATCH viii. Land: WITHIN 30 DEGREES OF NOSE c. Above 1,000 ft AGL 68 kts ii. Mixture: IDLE CUTOFF iii. Land: WITHIN 30 DEGREES OF NOSE c. Above 1,000 ft AGL 68 kts ii. Mixture: IDLE CUTOFF iiii. Fuel Selector:	Before Tak	eoff Checklist	
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iii. Fuel Selector: OFF		i. Airspeed: 68 kt	S
		ii. <u>Mixture:</u> IDLE CUTOF	F
iv. Ignition Switch: OFF	i	ii. <u>Fuel Selector:</u> OFI	F
	i	v. Ignition Switch: OF	F
v. Flaps: AS REQUIRED		v. Flaps: AS REQUIRED	<u>D</u>
vi. <u>Master Switch:</u> OFF			-
vii. <u>Land: BACK ON AIRPORT/ BEST PLACE</u>	v	ii. Land: BACK ON AIRPORT/ BEST PLAC	E

Line Up Checklist

1.	Doors/Windows:	CLOSED/LOCKED
2.	Lights:	AS REQUIRED
3.	Transponders:	<u>CHECK</u>
4.	Mixture:	RICH

Climb Checklist

1.	Flaps:	UP
2.	Airspeed:	70-85 kts
3.	Throttle:	FULL
4.	Mixture:	RICH BELOW 3,000 ft

Cruise Checklist

1.	Power:	2,200-2,700 RPM
2.	Trim:	ADJUST
3.	Mixture:	LEAN AS REQUIRED
4.	Engine Instruments:	CHECK
5.	Nav Instruments:	CHECK

Pre-Maneuver Checklist (IP3Cs)

1.	<u>Instrur</u>	ments:	CHECK
2.	<u>Positic</u>	on:	EMERGENCY LANDING LOCATION
3.	<u>Clearir</u>	ng Turns:	<u>EXECUTE</u>
4.	Call:		COMPLETE
5.	<u>Config</u>	ure	
	a.	Fuel Selector:	BOTH
	b.	Mixture:	AS REQUIRED
	с.	Lights:	AS REQUIRED

In Range Checklist

1.	ATIS/AWOS:	CHECK
2.	Altimeter:	SET
3.	Clearance:	OBTAIN AS REQUIRED
4.	Approach Brief:	COMPLETE
5.	Radios/Nav/GPS/CDI:	SET
6.	Lights:	AS REQUIRED

Descent Checklist

1.	Fuel Selector:	BOTH
2.	Mixture:	AS REQUIRED
3.	Power:	AS DESIRED
4.	Carburetor Heat:	AS REQUIRED

Before Landing Checklist

1.	Seats/Seatbelts:	SECURED/FASTENED
2.	Fuel Selector:	BOTH
3.	Mixture:	RICH
4.	Carburetor Heat:	ON (FULL HEAT BEFORE REDUCING POWER)
5.	Lights:	ON AS REQUIRED

Go Around

1.	<u>Throttle:</u>	FULL
2.	Carburetor Heat:	OFF
3.	Flaps:	RETRACT to 20° (immediately)
4.	Airspeed:	<u>62 kts</u>
5.	Flaps:	RETRACT to 10° (until obstacles are cleared)
6.	Airspeed:	7 <u>3 kts</u>
7.	Flaps:	RETRACT to 0° (at safe altitude)

After Landing Checklist

1.	Wing Flaps:	UP
2.	Carburetor Heat:	OFF
3.	Throttle:	1,000 RPM
4.	Mixture:	LEAN AS REQUIRED
5.	Trim:	SET FOR TAKEOFF
6.	Transponder:	1200
7.	Lights:	AS REQUIRED
8.	Taxi Route:	BRIEF

Shutdown/Securing Checklist

1.	Avionics Power Switch/Electrical Equipment	nt/Autopilot:	OFF
2.	Lights:	ON AS REQU	IRED
3.	Throttle:		IDLE
4.	Mixture:	IDLE CUT	OFF
5.	Ignition Switch:		OFF
6.	Master Switch:		OFF
7.	Hobbs/Tach:	REC	CORD
8.	Locks/Covers/Tie downs/ Chalks:	SEC	URE

Emergency Procedures

Engine Fire (During Start)		
• Ignition:	CONTINUE CRANKING	
If Engine Starts		
• Power:	1,700 RPM FOR 2 MINUTES	
• Engine:	SHUTDOWN	
If Engine Does Not Start		
• <u>Throttle:</u>	FULL OPEN	
• <u>Mixture:</u>	IDLE CUTOFF	
• Ignition:	CONTINUE CRANKING	
Fire Extinguisher:	OBTAIN	
Mater Switch:	<u>OFF</u>	
<u>Mater Switch:</u><u>Ignition Switch:</u>	OFF OFF	
Ignition Switch:	OFF	

Engine Fire In Flight

1. Mixture: IDLE CUTOFF

OFF

OFF

- 2. Fuel Selector Valve:
- 3. Master Switch:
- 4. <u>Cabin Heat/Air:</u> OFF (except overhead vents)
- 5. <u>Airspeed: 100 kts OR MORE TO EXTINGUISH FIRE</u>

Go To Emergency Landing Without Engine Power Checklist

Cabin Fire in Flight

and Cabin.

1. Master Switch:	OFF
2. Vents/Cabin Air/Cab	in Heat: CLOSED
3. Fire Extinguisher:	USE (After Using, Ventilate The Cabin)
4. Declare Emergency:	<u>121.5/ SQUAWK 7700</u>
Land As Soon As Possible	e

Wing Fire in Flight 1. Nav Lights: OFF 2. Pitot Heat: OFF 3. Strobe Lights: OFF • Perform Sideslip to Keep Flames Away From Fuel Tanks

 Land As Soon As Possible Using Flaps Only Required For Final Approach and Touchdown

Electrical Fire in Flight		
1. Master Switch: OFF		
2. Avionics Power Switch: OFF		
3. <u>All Other Switches (Except Ignition Switch):</u> OFF		
4. Vents/Cabin Air/Cabin Heat: CLOSED		
5. Fire Extinguisher: USE (After Use, Ventilate The Cabin)		
If Fire Appears Extinguished and Electrical Power is Necessary For The Continuance Of The Flight.		
6. Master Switch: ON		
7. Circuit Breakers: CHECK FOR FAULTY CIRCUIT, DON'T RESET		
8. <u>Radio Switches:</u> <u>OFF</u>		
9. Avionics Power Switch: ON		
10. Radio/Electrical Switches: ON 1 AT A TIME (with delay		
after each until short circuit is localized)		

Engine Failure During Takeoff Roll

1.	Throttle:	IDLE
2.	Brakes:	APPLY
3.	Brakes:	AS REQUIRED
4.	Wing Flaps:	RETRACT
5.	Mixture:	IDLE CUTOFF
6.	Ignition Switch:	OFF
7.	Master Switch:	<u>OFF</u>

Engine Failure Immediately After Takeoff

1.	Airspeed:	<u>68 kts</u>
2.	Mixture:	IDLE CUTOFF
3.	Fuel Selector:	<u>OFF</u>
4.	Ignition Switch:	OFF
5.	Wing Flaps:	AS REQUIRED
6.	Master Switch:	OFF
7.	Doors:	UNLATCH PRIOR TO TOUCHDOWN
Lar	nd Straight Ahead	

Engine Failure During Flight		
Don't Attempt Below 1,000 ft AGL		
1. Airspeed: <u>68 kts</u>		
2. Best Place to Land: IDENTIFY		
3. Carburetor Heat: ON		
4. Fuel Selector Valve: BOTH		
5. <u>Mixture:</u> <u>RICH</u>		
6. Ignition Switch: BOTH (START IF PROPELLOR IS		
<u>STOPPED)</u>		
7. Primer: IN AND LOCKED		
8. Declare Emergency: 121.5/SQUAWK 7700		
Emergency Landing Without Engine Power Checklist		

Emergency Landing Without Engine Power

1.	Airspeed:	<u>68 kts</u>
2.	Mixture:	IDLE CUTOFF
3.	Fuel Selector:	OFF
4.	Ignition Switch:	OFF
5.	Wing Flaps:	AS REQUIRED
6.	Master Switch:	OFF
7.	Doors:	UNLATCH PRIOR TO TOUCHDOWN
8.	Touchdown:	SLIGHTLY TAIL LOW
9.	Brakes:	APPLY HEAVILY

Ammeter Shows Excessive Rate of Charge

1.	Alternator:		<u>OFF</u>
2.	Alternator Circuit Brea	iker:	<u>Pull</u>
3.	Nonessential Electrica	l Equipment:	<u>OFF</u>
4.	Flight:	TERMINATE AS SOON AS PRAC	TICAL

Low-Voltage Light Illuminates Durin	ng Flight
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(Ammeter Indicates Discharge)

1. Avionics Power	Switch:	OFF
2. Alternator Circu	it Breaker:	CHECK IN
3. Master Switch:		OFF (BOTH SIDES)
4. Master Switch:		<u>ON</u>
5. <u>Low-Voltage Lig</u>	ht:	CHECK OFF
6. Avionics Power	Switch:	<u>ON</u>
If Low-Voltage Light	t Illuminates Again:	
7. <u>Alternator:</u>		<u>OFF</u>
8. Nonessential Ra	idio and Electrical Eq	uipment: OFF
9. <u>Flight:</u>	TERMINATE A	AS SOON AS PRACTICAL

High Carbon Monoxide Level	
1. <u>Cabin Heat:</u>	OFF
2. <u>Cabin Air:</u>	<u>ON</u>
3. <u>Cabin Vents:</u>	<u>OPEN</u>
4. <u>Windows:</u>	<u>OPEN</u>
Land as Soon as Practical	