N7183A (1956 Cessna 172)



V Speeds

(Knots at Full Gross Weight: 2,300)

Vr: 55

Vx: 62

<u>Vy: 73</u>

Vso: <u>50</u>

Vs: 43

Vno: 126

Vne: 158

Vg: <u>68</u>

<u>Va:</u>

2,300: 97

<u>1,950:</u> 89

1,600: 80

Vfe: 85

Max Window Open: 158

Max Demonstrated Crosswind: 15

Normal Procedures

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

Preflight Inspection (Empennage)			
1.	Tie Down:		REMOVE
2.	Control Surfaces:	CHECK SURFACE/MC	VEMENT
3.	Bolts/Cotter Pins on I	Elevator and Rudder:	CHECK
4.	Antennas:		CHECK
5.	Lights:		CHECK

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: CHECK	QUANTITY/CAP
7.	Fuel Sump:	DRAIN
8.	Main Gear Tire/Brake Pads/Discs:	CHECK
9.	Door Hinge:	CHECK

Preflight Inspection (Nose)

1.	Engine Oil:	6-8 Quarts
2.	Fuel Strainer:	DRAIN
3.	Propeller/Spinner:	CHECK
4.	Air Filter:	CHECK
5.	Nose Wheel Strut/Tire:	CHECK
6.	Cowling:	CHECK
7.	Static Port:	CHECK
8.	Wheel Chocks:	REMOVE

Preflight Inspection (Left Wing)

1.	Tiedown:	REMOVE
2.	Flaps/Hinges:	CHECK
3.	Ailerons/Hinges:	CHECK
4.	Surface Condition:	CHECK
5.	Stall Warning:	CHECK/TEST
6.	Wingtip Lights:	CHECK
7.	Landing Lights:	CHECK
8.	Fuel Tank:	CHECK QUANTITY/CAP
9.	Fuel Sump:	DRAIN
10	. <u>Pitot Tube/ Drain Hole:</u>	CHECK
11	. <u>Fuel Vent:</u>	CHECK
12	. 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.	Seats/Seatbelts:	LOCKED/FASTENED
3.	Brakes:	CHECK PRESSURE
4.	Fuel Selector:	<u>BOTH</u>
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/Beacon Light:	ON
4. Prime:	AS REQUIRED
5. Throttle:	1/8 inch open
6. Fuel pump:	ON
7. Propeller Area:	CLEAR
8. <u>Ignition Switch: START (RELEASE</u>	WHEN ENGINE STARTS)
9. Oil Pressure:	CHECK
10. Mixture:	LEAN AS REQUIRED
11. Throttle:	1,000 RPM
12. Amps/Volts:	CHECK
13. Beacon/Navigation/Strobe Lights:	ON AS NECESSARY
14. Avionics Switch:	ON
15. Radios:	ON

Hot Start

1.	Throttle:	½" OPEN
2.	Mixture:	IDLE CUTOFF
3.	Fuel Pump:	ON
4.	Starter:	ENGAGE
5.	Mixture:	RICH
6.	Throttle:	REDUCE

Flooded

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

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

Before Takeoff Checklist 1. Type of Takeoff: BRIEF 2. Takeoff Briefing: a. PIC **RUNWAY NUMBER** b. **RUNWAY DISTANCE** c. d. TAKEOFF DISTANCE DEPARTURE BRIEF e. 3. Engine Failure a. Takeoff Roll i. Power: IDLE ii. Flaps: RETRACT iii. Directional Control: MAINTAIN AS REQUIRED iv. Brake: b. Below 1,000 ft AGL i. Airspeed: 68 kts ii. Mixture: IDLE CUTOFF iii. Fuel Selector: OFF iv. Ignition Switch: _____ OFF v. Flaps: AS REQUIRED vi. Master Switch: OFF **UNLATCH** vii. Doors: _____

viii. <u>Land:</u> c. <u>Above 1,000 ft AGL</u>

i. Airspeed: 68 kts

WITHIN 30 DEGREES OF NOSE

ii. Mixture: IDLE CUTOFF

iii. <u>Fuel Selector:</u> <u>OFF</u>

iv. <u>Ignition Switch:</u> OFF

v. Flaps: AS REQUIRED

vi. Master Switch: OFF

vii. Land: BACK ON AIRPORT/ BEST PLACE

Line Up Checklist

1.	Doors/Windows:	CLOSED/LOCKED
2.	Lights:	AS REQUIRED
3.	Transponders:	CHECK
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:	<u>ADJUST</u>
3.	Mixture:	LEAN AS REQUIRED
4.	Fuel Pump:	OFF
5.	Engine Instruments:	CHECK
6.	Nav Instruments:	CHECK

Pre-Maneuver Checklist (IP3Cs)

1.	Instru	ments:	CHECK
2.	Positio		EMERGENCY LANDING LOCATION
3.	Clearii	ng Turns:	EXECUTE
4.	Call:		COMPLETE
5.	Config	<u>gure</u>	
	a.	Fuel Selector:	BOTH
	b.	Mixture:	AS REQUIRED
	c.	Lights:	AS REQUIRED

In Range Checklist

1.	ATIS/AWOS:	CHECK
2.	Altimeter:	<u>SET</u>
3.	Clearance:	OBTAIN AS REQUIRED
4.	Approach Brief:	COMPLETE
5.	Radios/Nav/GPS/CDI:	<u>SET</u>
6.	<u>Lights:</u>	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.	Fuel pump:	ON
5.	Carburetor Heat:	ON (FULL HEAT BEFORE REDUCING POWER)
6.	Lights:	ON AS REQUIRED

Go Around

G	Around	
1.	Throttle:	FULL
2.	Carburetor Heat:	OFF
3.	Flaps:	RETRACT to 20° (immediately)
4.	Airspeed:	62 kts
5.	Flaps:	RETRACT to 10° (until obstacles are cleared)
6.	Airspeed:	73 kts
7.	Flaps:	RETRACT to 0° (at safe altitude)

After Landing Checklist

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

Shutdown/Securing Checklist

1.	Avionics Power Switch/Electrical Equ	ipment/Autopilot:	OFF
2.	Lights:	ON_AS REQU	IRED
3.	Throttle:		IDLE
4.	Mixture:	IDLE CU	TOFF
5.	Ignition Switch:		OFF
6.	Master Switch:		OFF
7.	Hobbs/Tach:	REC	CORD
8.	Locks/Covers/Tie downs/ Chalks:	SEC	CURE

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	
• Throttle:	FULL OPEN
• Mixture:	IDLE CUTOFF
• Ignition:	CONTINUE CRANKING
• Fire Extinguisher:	<u>OBTAIN</u>
Mater Switch:	<u>OFF</u>
Ignition Switch:	OFF
Fuel Selector Valve:	<u>OFF</u>
• Fire:	USE FIRE EXTINGUISHER

Engine Fire In Flight

1. Mixture: IDLE CUTOFF

2. Fuel Selector Valve: OFF

3. Master Switch: OFF

4. Cabin Heat/Air: OFF (except overhead vents)

5. Airspeed: 100 kts OR MORE TO EXTINGUISH FIRE

Go To Emergency Landing Without Engine Power Checklist

Cabin Fire in Flight

1. Master Switch: OFF

2. Vents/Cabin Air/Cabin Heat: CLOSED

3. Fire Extinguisher: <u>USE (After Using, Ventilate The Cabin)</u>

4. Declare Emergency: 121.5/ SQUAWK 7700

Land As Soon As Possible

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 and Cabin.

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

Electrical Fire in Flight

8. Radio Switches:

9. Avionics Power Switch:

1. Master Switch:	OFF	
2. Avionics Power Switch:	<u>OFF</u>	
3. All Other Switches (Except Ignition Switch):	<u>OFF</u>	
4. Vents/Cabin Air/Cabin Heat:	CLOSED	
5. Fire Extinguisher: USE (After Use, Ventilate Th	e 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	

10. Radio/Electrical Switches: ON 1 AT A TIME (with delay after each until short circuit is localized)

OFF

ON

Engine Failure During Takeoff Roll

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

Engine Failure Immediately After Takeoff

1.	Airspeed:	68 kts
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

Land 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:	<u>BOTH</u>
5.	Mixture:	RICH
6.	Ignition Switch:	BOTH (START IF PROPELLOR IS
	STOPPED)	
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:	<u>OFF</u>
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	aker:	<u>Pull</u>
3.	Nonessential Electrica	l Equipment:	<u>OFF</u>
4.	Flight:	TERMINATE AS SOON AS PRACT	ΓΙCAL

Low-Voltage Light Illuminates During Flight

(Ammeter Indicates Discharge)

1.	Avionics Power Switch:		<u>OFF</u>
2.	Alternator Circuit Breake	er:	CHECK IN
3.	Master Switch:	OFF (E	BOTH SIDES)
4.	Master Switch:		ON
5.	Low-Voltage Light:		CHECK OFF
6.	Avionics Power Switch:		ON
If L	ow-Voltage Light Illumina	ates Again:	
7.	Alternator:		<u>OFF</u>
8.	Nonessential Radio and	Electrical Equipment:	OFF
9.	Flight: T	ERMINATE AS SOON AS	S PRACTICAL

High Carbon Monoxide Level

1.	Cabin Heat:	<u>OFF</u>
2.	Cabin Air:	ON
3.	Cabin Vents:	<u>OPEN</u>
4.	Windows:	OPEN

Land as Soon as Practical