



Cessna 172 - N5089G

PREFLIGHT (INSIDE COCKPIT)

W&B / Performance	COMPLETE
AROW Documents	On Board
MASTER	ON
Fuel Gauges	Check
Flaps / Control Lock	Check
Lights	Check
MASTER / MAGS	OFF
Fuel Selector	BOTH

PREFLIGHT (EXTERNAL)

Tiedowns / Chocks	Remove
Fuel Sumps	Drain
Fuel Quantity	Verify
Rivets/Skins/Doors	Inspect
Control Surfaces	Inspect
Tires/Brakes/Struts	Inspect
Oil Level	5.75 - 8 Qts
Prop / Engine	Inspect
Lights	Inspect
Pitot / Static / Stall	Inspect

ENGINE START

Briefing	Complete
Seat Belts / Tracks	Check
Fuel Selector	Both
Circuit Breakers	Check
Beacon / Lights as Req.	ON
MASTER	ON
Mixture	Rich
Primer (0-3 Shots)	As Needed
Throttle	1/4" from Idle
Clear Prop / START	1000 RPM
Oil Pressure	Check
Avionics Master	ON
Mixture / Flaps	Adjust
Weather / ATIS	Obtain
Taxi Call / Clearance	Complete
Brakes / Instruments	Check

V SPEEDS (KIAS)

Vr	55	Vfe	110
Vx	65	Va	82-97
Vy	75	Vn	126
Vs	50	Vne	158
Vs0	43	Vglide	65

BEFORE TAKEOFF

Flight Controls	Check
Mixture	Rich
Power	1700 RPM
Ignition Switch	L&R (125/50)
Carb Heat	Check On/Off
Suction Gauge	3-7 Vacuum
Ammeter	Check
Power	Reduce / Idle
Instruments	Set
Autopilot	Test / On / STB / Disconnect
Autopilot	Off
COM / NAV's	Set/Program
Doors / Windows / Belts	Secured
Trim / Flaps	Set
Lights / Transponder	Set
Call / Clearance	Complete

NORMAL TAKEOFF

Flaps	0-10*
Vr	52 KIAS
Vy	75 KIAS
Flaps	UP / Positive Climb

SHORT FIELD TAKEOFF

Flaps	10*
Brakes	Hold / Power Full
Vr	52 KIAS
Vx (50' Obstacle)	65 KIAS
Vy	75 KIAS
Flaps	UP / Positive Climb

SOFT FIELD TAKEOFF

Flaps	10*
Back Pressure	Keep Nose Up
Vx (50' Obstacle)	65 KIAS
Vy	75 KIAS
Flaps	UP / Positive Climb

Climb

Power / Mixture	Adjust
Enroute Climb	75-85 KIAS

Cruise

Power / Mixture	Set / Adjust
Gauges / Instruments	Check

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APPROACH / LANDING

Weather / ATIS	Obtain
Briefing / Seat Belts	Complete
Seat Belts	Secure
Mixture	Rich
Fuel Selector	Both
Lights	As Needed
Carb Heat	As Needed
Normal Approach	65-70 KIAS
Short / Soft Field	60-65 KIAS

GO AROUND

Power	Full
Carb Heat	Off
Pitch for Climb	75 KIAS
Flaps Up	Retract Slowly

AFTER LANDING

Carb Heat	Off
Flaps	Retract
Strobes	Off

SECURE

Avionics Master	Off
Mixture	Lean Cutoff
Ignition / Key	Off / Remove
Master	Off
Tiedown/Control Lock	Complete

Complete Post Flight Interior / Exterior Check

Air Space	Visibility	Distance From Clouds	
Class A	No VFR	No VFR	
Class B	3 statute miles	Clear of Clouds	
Class C	3 statute miles	500 feet below	
Class D	3 statute miles	1000 feet above	
Class E	less than 10,000 MSL	3 statute miles 2,000 feet horizontal	
	at or above 10,000 MSL	5 statute miles 1,000 feet below, 1,000 feet above, 1 statute mile horizontal	
Class G	1,200 feet or less AGL	Day	1 statute mile Clear of Clouds
		Night	3 statute miles 500 feet below 1000 feet above 2,000 feet horizontal
	more than 1,200 AGL but less than 10,000 MSL	Day	1 statute mile
		Night	3 statute miles
more than 1,200 AGL and at or above 10,000 MSL	5 statute miles	1,000 feet below, 1,000 feet above, 1 statute mile horizontal	

Color and Type of Signal	Movement of Vehicles, Equipment and Personnel	Aircraft on the Ground	Aircraft in Flight
Steady green	Cleared to cross, proceed or go	Cleared for takeoff	Cleared to land
Flashing green	Not applicable	Cleared for taxi	Return for landing (to be followed by steady green at the proper time)
Steady red	Stop	Stop	Give way to other aircraft and continue circling
Flashing red	Clear the taxiway/runway	Taxi clear of the runway in use	Airport unsafe, do not land
Flashing white	Return to starting point on airport	Return to starting point on airport	Not applicable
Alternating red and green	Exercise extreme caution!!!!	Exercise extreme caution!!!!	Exercise extreme caution!!!!

Code	Use
7700	Aircraft in emergency
7600	Aircraft with radio communication failure
7500	Hijacked aircraft

EMERGENCIES

ENGINE FAILURES

IMMEDIATELY AFTER T/O

Pitch	Nose Down / 65 KIAS
Troubleshoot	If Time / Alt Permit
Land	Straight Ahead

INFLIGHT

Pitch	Nose Down / 65 KIAS
Landing Site	Select / Into Wind
<i>Troubleshoot if Time Permits</i>	
Primer	Locked
Mixture	Rich
Fuel Selector	Both or Fullest
Carb Heat	On / As Needed
Magnetos	Both / Starter

Failure to Restart

Seat Belts	Secured
Fuel Selector	Off
Transponder	7700
Doors	Popped Open
Communicate	121.5 or Current

ENGINE FIRE INFLIGHT

Fuel Selector / Mixture	Off
Master	Off
Vents / Windows	Open if Smoke
Emergency Descent	Execute

ELECTRICAL FIRE INFLIGHT

Master	Off
Circuit Breakers	Check
Fire	Extinguish
Vents / Windows	Open if Smoke
Emergency Descent	If Required

EMERGENCY DESCENT

Carb Heat	On
Power	Idle
Bank / Flaps	If Needed
Airspeed	110 KIAS
Vents / Windows	Open if Smoke

ALTERNATOR FAILURE

ALT MASTER	Cycle
Ammeter	Confirm
Electrical Load	Reduce / Land Soon