

## NORMAL CHECKLIST MOONEY M20K 231 D-EZKK



### COCKPIT / BEFORE START

Preflight Inspection	Completed
Pitot cover / Tow bar	removed
Seats and Seat Belts	Fastened
Baggage Compartment	Locked
Controls	Free
Gear Lever	Down
Gyro	Slave
ELT	Armed
All Switches	Off
Alternate Static pressure	Off (pressed)
Cowl Flaps	Open
Defrost/Vent/Heat	Off
Fuel Selector	fullest Tank
Emergency Gear Button	Locked
Passenger Briefing	completed

### STARTING ENGINE

Throttle	Full open to prime
Prop	Full forward
Mixture	Rich
Master Switch	On
Annunciator Lights	Test
PRIMER	5 sec.
Throttle	¼" open to start
Strobes/Beacon	On
Prop Area	Free
Starter	Engage
Primer / Fuel Pump	on condition
Throttle	1000 rpm
Oil Pressure	Check/green
Mixture Lean	1,8 Gal/h
Radio Master	On
Trimm Motor	On
Voltmeter	Check/green
Lights	as required
Engine Gauges	check
Circuit Brakers	Check

### AFTER START

Avionics On / Set	Com/Nav1+2 GPS/Xpdr/DME
Gyro+Hdg.Bug	Preselected
Altimeters	Set/x-checked
Engine Gauges	Check
Autopilot	Test / off

### TAXI

Parking Brake	Released
Brakes	Check
Flight Instruments	Check

### ENGINE RUNUP

Brakes	Set
Fuel Selector	Fullest Tank
Cowl Flaps	Open
Throttle	1000
Oli Temperature	> 100° F
Cylinder Head Temp.	> 250° F
Alternate Air	Closed
Throttle	2000
Magnetos check	150/50
Prop check (rpm>1500)	3 times
Amperemeter	Check +
Throttle	idle
Engine Instruments	In Limits
Throttle	1000

### BEFORE T/O

T/O & Emerg. Briefing	Completed
Magnetos	Both
Elevator Trim	Start
Trim	Set for T/O
Flaps	10° / as req.
Autopilot	Off
Mixture	Rich
Cowl Flaps	Open
Gear Lever	Down
Doors/Window	Closed/locked
Clock/Time	Set/noticed

### CLEARED FOR T/O

Transponder	Alt
Landing Light	On
Pitot Heat	As required
Gyro	Set/checked

### T/O CLIMB

POWER	39/2700
Vr	64 kts
Gear up	< 104 kts
500ft	35/2500 Flaps up
Level speed Vclimb (Vy)	97 kts

### AFTER T/O

Gear	Up
Flaps	Up
Landing Light	Off
Cowl Flaps	Open
Altimeters	Set/x-check

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### CRUISE

Cowl Flaps	Close/as req.
POWER	PwrSet Table
Mixture CHT 400° TIT 1650°	Lean

### APPROACH

Seats and Seat Belts	Fastened
ATIS	Received
Approach Setup+Briefing	Completed
Fuel selector	Fullest Tank
Power	> 15/2400
Cowl Flaps	Closed
CHT	> 250°
Airspeed Approach	< 130 kts
Mixture	enrich/rich
Altimeters	Set/x-check
Airspeed Final	< 110 kts
Gear / Flaps	Down / 10°
Landing Lights	On
Parking Brake	Released
BASE Flap/speed	20° / 90
FINAL Flap/speed	20° / 75
SHORT Landing	33° / 69

### FINAL (GUMPFS)

GEAR	Down/green
Prop	Full Forward
Mixture	Rich
Flaps	As required

### AFTER LANDING

Flaps	Up
Cowl Flaps	Open
Transponder	Stdbby
Landing Lights	Off
Pitot heat	Off
Stop watch	Start

### PARKING

Parking Brake	Set
Throttle	700-750
Mixture Lean	1,8 Gal/h
Avionics	Off
ENGINE COOL DOWN	3 MIN
Mixture	Cut off
All Switches	Off
Magnetos	Off
Key	Off/Removed
Controls	locked
Cabin	locked

### SPEEDS

Vr	64
VS0	58
VS1	63
VY	97
VX	72
Best Glide Cruise Cfg	85
Best Glide Land Cfg	80
Vlg in	104
Vlg out	132
Vfo flaps	112
Vcruise	174
Va	119
Vne	196
Approach	130
Downwind	100
Base	90
Final	75
Final short landing	69

### POWER SETTINGS

CHT 400° - TIT 1650°		
	MP/RPM	Fuel
T/O	39/2700	22
Climb (max5Min)	39/2500	22
Econ Climb 500ft	35/2500	17
CRUISE max	31/2400	12,5
70%	30/2400	10
65%	27/2300	09
55%	24/2200	08
DescentApproach	18/2400	07
Approach	15/2400	Min

### DATA

MAX Crosswind Comp.	12 Kts
Glide Ratio 10000 ft	19 NM
MTOW	1314 kg
MLAM	1314 kg
Max. Baggage	54 kg
Max. useful Load	408 kg
Max. Payload (300l)	191 kg
Fuel 100LL 80 GAL	302,8 l 217kg
ausfliegbar	272,5 l
Endurance	h 5 h