

Preflight Mooney M20C		
1. Fuel Level	VISUAL CHECK	
2. Hobbs Book	CHECK #'s	
3. Paperwork	ARROW-AV1ATE	
4. Control Lock	REMOVE	
5. Fuel Selector	Pick a Side	
6. Instruments	0's, INOP FLAGS	
7. Master	ON	
8. Fuel Qty	CHECK	
9. Turn Coordinator	LISTEN	
10. Beacon/Nav/Lights	CHECK LIGHTS	
11. Gear Position	CHECK LIGHTS	
12. Pitot Heat	CHECK	
13. Master	OFF	
14. Preflight	WALK AROUND	
<input type="checkbox"/> Fuel Level	VISUAL CHECK	
<input type="checkbox"/> Fuel Sumps	DRAIN 3 SUMPS	
<input type="checkbox"/> Oil	6-8 Quarts	
<input type="checkbox"/> 360 Walk	TIE-DOWNS	

Passenger Briefing Checklist

1. Seat Belts/Harness	EXPLAIN and ON
2. Door / Exiting Plane	EXPLAIN
3. First Aid/Fire Ext	LOCATE
4. Scanning for Traffic	ASSIST
5. Exchange Controls	EXPLAIN
6. Seat Rail Locks	CHECK
7. Outside Step	RAISE

Engine Start Checklist

1. Gear Lever Area	CLEAR the Floor
2. Brakes	SET
3. Electrical	ALL OFF
4. Circuit Breakers	ALL IN
5. Mixture	FULL RICH
6. Carburetor Heat	OFF
7. Cowl Flaps	OPEN
8. Master Switch	ON
9. Beacon	ON (Strobes)
10. Throttle	1/4 Inch Open
11. Prime	FUEL PUMP ON
12. -3 seconds-	FUEL PUMP OFF
13. Throttle Pumps (summer)	3 pumps
(while cranking) (winter)	3+4 pumps
14. Area	*****"CLEAR"*****
15. Magnetos/Starter	CRANK ENGINE
16. Throttle	800-1000 RPM
17. Mixture	LEAN for TAXI
18. Oil Pressure	30 Sec. GREEN
19. Flaps	UP
20. Avionics Master	ON
21. Instruments	DG to Compass
22. Transponder	1200 "STANDBY"
23. Radios	TUNE, TEST
24. ATIS	SET Altimeter

Contact GROUND for Taxi to Runway

While Taxi Checklist

Brakes	TEST both sides
Verify Instruments	6 PACK CHECK
	Compass/TC/DG
	INTO WIND
Position at Run-up	

Run-Up Checklist

1. Brakes	SET
2. Doors/Windows	CLOSED
3. Belts/Harness	SECURED
4. Controls	CHECK
5. Trim	SET TAKEOFF
6. Instruments	SET AI / DG
7. Fuel Selector	SWITCH TANKS
8. Blast Area	CLEAR BEHIND
9. Throttle	1700 RPM
10. Engine Instruments	ALL GREEN
11. Mixture	LEAN
12. Magnetos	125 Max, 75 Diff
13. Propellor	Cycle 3 times
14. Carburetor Heat	CHECK then OFF
15. Ammeter Check	+CHARGING
16. Vac/OilPress/Temp	ALL GREEN
17. Fuel Pressure	CHECK
18. Throttle	800-1000 RPM
19. IFR: Pitot Heat	Turn On for IFR

Ready for Takeoff Checklist

Cowl Flaps	OPEN
Elevator Trim	SET TAKEOFF (window)
Flaps	SET TAKEOFF (window)
Fuel Pump	PUMP ON
Lights	STROBES-LANDING-NAV
Camera	XPDR Code / "Altitude"
Action	Note TAKEOFF TIME
Review	Vspeeds
Review	Take Off Engine Loss
Review	WINDS

Takeoff Checklist

Vrotate	70 MPH Vrotate
Climb Out	100 MPH
Flaps	UP when Clear (80-90mph)
Landing Gear	UP when Clear
	Stow In Floor

Cruise/Climb Checklist

1. Climb Airspeed	115-120 MPH
2. Fuel Pump	OFF
3. Landing Light	OFF
4. Power	As RQD
5. Mixture	Lean As RQD

Airspeeds	M20C
V1 abort takeoff	49 MPH (50% Rwy)
Vs0 stall w/Flaps	63 MPH
Vs1 stall clean	70 MPH
Vr rotate	70 MPH
Takeoff Climb	100 MPH
Vy best rate	105 MPH
Vx best angle	80 MPH
Vbest glide	105 MPH Glide
Vfe flaps extend	100 MPH full flaps
Va maneuvering	132 MPH
Vno max cruise	150 MPH
Vne never exceed	189 MPH
Vlo gear operation	120 MPH
Vle gear extended	120 MPH
Landing: 12-14"MP	100 - 90base - 80over #'s

Descent Checklist

1. Power	Reduce as RQD
2. Cowl Flaps	CLOSED
3. Mixture	Enrichen as RQD
4. Carb Heat	ON as RQD

Pre Landing Checklist

C - Cowl Flaps	CLOSED
G - Gas	Fullest Tank
U - Undercarriage	GEAR DOWN
	VERIFY COLLAR!
M - Mixture	RICH if Necessary
P - Propellor	FULL FORWARD
P - Fuel Pump	FUEL PUMP ON
S - Switches	Landing Light ON
S - Safety	Seat Belts ON

Landing

Downwind	100 MPH @ 15"MP
Abeam #'s	90 MPH @ 12-14"MP
	(Incremental FLAPS)
Over the #'s	80 MPH FULL FLAPS
** Gusty or Cross Winds	No Flaps

Go Around (ABORTED LANDING)

Throttle	FULL THROTTLE
Flaps	UP when positive rate
Airspeed	Establish +80 KIAS
Flaps	Bring up SLOWLY

Clear Runway Checklist

Trim	SET "TAKEOFF"
Flaps	UP
Fuel Pump	OFF
Cowl Flaps	OPEN
Carb Heat	OFF
Landing Light	OFF
Transponder	1200 "STDBY"
IFR: Instruments	CHECK 6 pack

Shutdown Checklist

Electrical	AVIONICS OFF
Throttle	IDLE
Mixture	IDLE CUTOFF
Magnetos	OFF
Master	OFF
Control Lock	SECURE
Tiedowns	FASTEN

CLOSE FLIGHT PLAN



Flooded Engine Start Checklist

Fuel Pump	OFF
Mixture	IDLE CUT OFF
Throttle	FULL
Starter	CRANK
.....	

Emergency Procedures

Engine Failure M20C

Memory Items ABCDE

A Airspeed	105 MPH
B Best Place to Land	(Check Wind Dir)
C Checklist	TRY RESTART
D Declare Emergency	121.5 MAYDAY
	7700 IDENT
E Execute Landing	Doors Open
	Seat Belts

ENGINE RESTART Procedures

Fuel Selector	FULLEST
Fuel Pump	ON
Mixture	FULL RICH
Throttle	FULL THROTTLE
Carburetor Heat	ON
Magnetos	BOTH

Before TOUCHDOWN (forced landing)

Door	OPEN
Belts	SECURE
Cushions	PROTECT HEAD
Mixture	IDLE CUTOFF
Fuel Selector	OFF
Magnetos	OFF
Flaps	FULL POSSIBLE
Master	OFF
Landing	SOFT FIELD

Engine Fire in Flight

Mixture	IDLE CUTOFF
Fuel Selector	OFF
Cabin Air/Heat	CLOSE VENTS
Flaps	FULL FLAPS
Master	OFF
Airspeed	TOP of WHITE xx KIAS
Bank Angle	45 DEGREES

Proceed with Engine Failure Above

Electrical Fire in Flight

Master	OFF
Avionics	OFF
All Switches	OFF
Vents/Cabin Air	CLOSED
Fire Extinguisher	ACTIVATE
Fire	EXTINGUISHED
Vents/Cabin Air	VENT CABIN

If electrical power is necessary, then:

Master	ON
Circuit Breakers	CHK, do not reset
Radios	OFF
Avionics Master	ON
Radios/Switches	ONE AT A TIME

Wing Fire

Navigation Lights	OFF
Pitot Heat	OFF
Strobe Lights	OFF
Side Slip	PERFORM

Excessive Rate of Charge

Alternator	OFF
Alternator Breaker	PULL OFF
Nonessential Equipment	OFF
Flight	Terminate ASAP

Low Voltage Light On

Avionics Master	OFF
Alternator Circuit Breaker	CHECK IN
Master (both sides)	OFF
Master (both sides)	ON
Low Voltage Light	CHECK
Avionics Master	ON
If low-voltage light illuminates again, then	
Alternator	OFF
Nonessential Radios/Equip	OFF
Flight	Terminate ASAP

Lost - 'CCCCC'

Climb	(Better radio range)
Communicate	(FSS, 121.5)
Confess	(Ask for help)
Comply	(Follow advice)
Conserve	(Fuel-slow down)

SPIN RECOVERY

Throttle	IDLE
Ailerons	NEUTRAL
Rudder	OPPOSITE Rotation
Elevator	FWD BRISKLY
Rotation	STOPPED
Controls	NUETRALIZE
Recover	SLOWLY

M20C Performance (180hp)

Fuel Capacity	48 (24/24) Usable Gallons
Fuel Burn	~ 9-10 GPH
Tire Pressure	30psi nose/mains
Max Gross	2575 lbs (bew 1542lbs) 1032ul
Max RPM	2700 rpm
160mph TAS 12,500 19" 2600rpm 9gph	

Airport	WX	Twr-CTAF	TPA	Runways
KBJC	126.250	118.6/121.7	6500	30RL/12RL
KEIK	133.825	123.000	6200	34/16rp
KLMO	120.000	122.975	6000	29/11
KFNL	135.075	118.4/121.65	6000	33/15
KBDU	118.825	122.725	6300	8/26rp
KGXY	135.175	122.800	5500	35/17/28/10
KAPA	120.300	118.9/121.8	6900	35RL/17RL
Practice Area Longmont			123.175	
Practice Area Chatfield			122.750	
Emergency		121.500		
Flight Service		122.200		
Den App	(W)126.1	(N)134.85	(E)128.25	(S)128.45
KBJC Fuel Truck		(303) 466-2336	122.950	
KBJC Tower		(303) 633-8600		
IFR Clearance		(888) 766-8267		