Preflight Mooney M20J		
1.	Fuel Level	VISUAL CHECK
2.		CHECK #'s
3.	Paperwork	ARROW-AV1ATE
4.	Control Lock	REMOVE
5.	Gear Lever	GEAR DOWN
	Fuel Selector	Pick a Side
7.	Instruments	0's, INOP FLAGS
	Master	ON
9.	Fuel Qty	CHECK
10.	Turn Coordinator	LISTEN
11.	Flaps	DOWN
12.	Beacon/Nav/Lights	CHECK LIGHTS
13.	Stall Horn	TEST
14.	Gear Position	CHECK LIGHTS
15.	Pitot Heat	CHECK
16.	Master	OFF
17.	Baggage Door	LOCKED
18.	Preflight	WALK AROUND
	☐ Fuel Level	VISUAL CHECK
	☐ Fuel Sumps	DRAIN 4 SUMPS
	□ Oil	6-8 Quarts
	☐ 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

Eng	ine Start Checklist	
1.	Brakes	SET
2.	Electrical	ALL OFF
3.	Aux Pumps	BOTH OFF
4.	Circuit Breakers	ALL IN
5.	Cowl Flaps	OPEN
6.	Ram Air	CLOSED
7.	Master Switch	ON
8.	Beacon	ON
9.	Throttle	1/4 Inch Open
10.	Mixture	FULL RICH
11.	Fuel Pump	ON ~ 3sec - OFF
12.	Area	************
13.	Magnetos/Starter	CRANK ENGINE
14.	Throttle	800-1000 RPM
15.	Mixture	LEAN for TAXI
16.	Oil Pressure	30 Sec. GREEN
17.	Flaps	UP
18.	Avionics Master	ON
19.	Transponder	1200 "STANDBY"

Contact GROUND for Taxi to Runway

20.

Radios ATIS

TUNE, TEST

SET Altimeter

Whi	le Taxi Checklist	
Brak	kes	TEST both sides
Veri	fy Instruments	6 PACK CHECK
		Compass/TC/DG
Pos	ition at Run-up	INTO WIND
	•	
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	2000 RPM
10.	Engine Instruments	ALL GREEN

Trim Instruments Fuel Selector Blast Area	SET TAKEOFF SET AI / DG SWITCH TANKS CLEAR BEHIND
Throttle Engine Instruments Mixture Magnetos Propellor Ammeter Check Vac/OilPress/Temp Fuel Pressure Throttle IFR: Pitot Heat	2000 RPM ALL GREEN LEAN 175 Max, 50 Diff Cycle 3 times +CHARGING ALL GREEN CHECK 800-1000 RPM Turn On for IFR
	Instruments Fuel Selector Blast Area Throttle Engine Instruments Mixture Magnetos Propellor Ammeter Check Vac/OilPress/Temp Fuel Pressure

Ready for Takeoff Checklist		
Cowl Flaps	OPEN	
Elevator Trim	SET TAKEOFF (window)	
Flaps	SET TAKEOFF (window)	
Fuel 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		
Mixture	FULL RICH across line	
Vrotate	62 KIAS Vrotate	
Climb Out	87 KIAS	
Flaps	UP when Clear	
Landing Gear	UP when Clear (<108kts	
Prop	Verify full 2700rpm	
Prop	2500rpm after 500ft	
	=	

Cruise/Climb Checklist	
 Climb Airspeed 	100-105 KIAS
Fuel Pump	OFF
Landing Light	OFF
4. Power	As RQD
Mixture	As RQD 120ROP

Airspe	eds	M20C
V1	abort takeoff	52 KIAS (50% Rwy)
Vs0	stall w/Flaps	55 KIAS
Vs1	stall clean	63 KIAS
Vr	rotate	62 KIAS
Take	eoff Climb	87 KIAS
Vy	best rate	85 KIAS
Vx	best angle	70 KIAS
Vbe	st glide	88 KIAS
Vfe	flaps extend	115 KIAS
Va	maneuvering	105 KIAS
Vno	max cruise	176 KIAS
Vne	never exceed	198 KIAS
VIo	gear operation	100 KIAS
Vle	gear extended	108 KIAS
Landing: 12-14"MP 90 - 80base - 71 over #'s		

ent Checklist	
Power	Reduce as RQD
Cowl Flaps	CLOSED
Mixture	Enrichen as RQD
Ram Air	CLOSED
	Cowl Flaps Mixture

Pre Landing Checklis	t
C - Cowl Flaps Ram Air	CLOSED CLOSED
G - Gas U - Undercarriage	Fullest Tank GEAR DOWN VERIFY COLLAR!
M - MixtureP - PropellorP - Fuel PumpS - SwitchesS - Safety	RICH if Necessary FULL FORWARD FUEL PUMP ON Landing Light ON Seat Belts ON

_anding		
Downwind	90 KIAS @ 15"MP	
Abeam #'s	80 KIAS @ 12-14"MP	
	(Incremental FLAPS)	
Over the #'s	71 KIAS FIII I FI APS	

** Gusty or Cross Winds No Flaps

Throttle	FULL THROTTLE
Flaps	UP when positive rate
Airspeed	Establish +70 KIAS
Flaps	Bring up SLOWLY

Clear Runway Checklist Trim **SET "TAKEOFF"** Flaps UP Fuel Pump **OFF OPEN** Cowl Flaps **Landing Light OFF** Transponder 1200 "STDBY" IFR: Instruments CHECK 6 pack Shutdown Checklist

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

CLOSE FLIGHT PLAN

	Floo	oded	Engine	Start	Checklist
--	------	------	---------------	-------	-----------

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

Power Settings

Power Cruise (75%): 2500RPM, MP 24" (lean 120ROP)

Economy cruise (50%): 2200RPM, MP 21"

Temperatures/Numbers

CHT **400 Max** (POH 500 max) TIT **1600 Max** (POH 1750 max)

EGT 1560 Max

245 Max (POH 100 min) Oil Temp

Emergency Procedures

Engine Failure

Memory Items ABCDE

A Airspeed 88 KIAS

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

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 115 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
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

Emergency Gear Extension

Master/ALTR Switch ON
Circuit Breaker CHECK IN
-- Emergency Gear Extend -Gear Selector DOWN

Circuit Breaker PULL (disengage)
Airspeed BELOW 100 KIAS
HAND CRANK Push FORWARD
Crank Clockwise

Gear Indicator GREEN

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 Are	a Longmon	123.175		
Practice Are	a Chatfield		122.750	
Emergency		121.500		
Flight Service	e	122.200		
Den App	(W)126.1	(N)134.85	(E)128.25	(S)128.45
KBJC Fuel Tr	uck	(303) 466-2336	122.950	
KBJC Tower		(303) 633-8600		
IFR Clearand	e	(888) 766-8267		

Performance (201hp)			
Fuel Capacity	64 (32/32) Usable Gallons		
Aux Tanks	17gal each (only use if rqd)		
Fuel Burn	~ 10-11 GPH		
Tire Pressure	49psi nose 30psi mains		
Max Gross	2740 lbs (bew xlbs) xul		
Max RPM	2700 rpm		
Voltage	24v		