

NORMAL CHECKLIST MOONEY - M20J

PRE-FLIGHT

- 1 Magnetos OFF
- 2 Mixture IDLE CUT-OFF
- 3 Circuit Breakers CK
- 4 Radios / Electrical Equipment OFF
- 5 Alternate Static Air OFF
- 6 Gear Selector DOWN
- 7 Master Switch ON
- 8 Fuel Gauges CK
- 9 Lights / Pitot Heat CK
- 10 Flaps DOWN
- 11 Master Switch OFF
- 12 Fuel Selector Drain L & R
- 13 Controls FREE
- 14 Brakes SET
- 15 COMPLETE EXTERIOR CHECK

BEFORE STARTING

- 1 Passenger Briefing COMPLETE
- 2 Master Switch ON
- 3 ATIS / Departure Clearance RECEIVED
- 4 Radios / Electrical Equipment OFF
- 5 Cowl Flaps OPEN
- 6 Ram Air CLOSED
- 7 Fuel Selector LOW TANK
- 8 Mixture RICH
- 9 Prop HIGH RPM
- 10 Throttle 1/4 OPEN
- 11 Fuel Pump ON / CK PRESSURE / OFF
- 12 Mixture IDLE CUT-OFF
- 13 Brakes HOLD
- 14 Prop Area CLEAR

AFTER TAKE-OFF (SAFE ALTITUDE)

- 1 Gear Selector UP
- 2 Flaps UP
- 3 Climb Power 26" Hg - 2600 RPM
- 4 Engine Instruments CK
- 5 Ammeter CK
- 6 Vacuum 4.6 - 5.4" Hg

CRUISE

- 1 Flight Instruments CK
- 2 Engine Instruments CK
- 3 Fuel Pump OFF
- 4 Fuel Pressure CK
- 5 Cowl Flaps AS REQD
- 6 Ram Air AS REQD
- 7 Cruise Power POWER CHART
- 8 Mixture LEAN
- 9 Ammeter CK
- 10 Vacuum 4.6 - 5.4" Hg
- 11 Fuel Selector AS REQD

DESCENT

- 1 Altimeter SET
- 2 Cowl Flaps CLOSED
- 3 Mixture AS REQD
- 4 Ram Air CLOSED

IN RANGE

- 1 Approach/Missed Approach REVIEW
- 2 App Nav/Mkr Bcn Audio ON

- 15 Magnetos ON / START
- 16 Mixture SLOWLY TO RICH
- 17 Oil Pressure CK

AFTER STARTING

- 1 Flaps UP
- 2 FL BCN / Nav Lights AS REQD
- 3 Comm / Nav Radios ON / CK
- 4 Transponder STANDBY
- 5 Altimeter SET
- 6 Heading Indicator SET
- 7 Pitot Heat AS REQD
- 8 Auto Pilot / Electric Trim System CK

TAXI

- 1 Brakes CK
- 2 Flight Instruments OPERATING

RUN-UP

- 1 Brakes HOLD
- 2 Fuel Selector FULL TANK
- 3 Mixture RICH
- 4 Throttle 1900 RPM
 - a. Engine Inst CK
 - b. Ammeter LOAD / CK
 - c. Vacuum 4.6 - 5.4" Hg
 - * d. Magnetos R/BOTH - L/BOTH
 - e. Prop CYCLE
- 5 Throttle 1000 RPM
6. Annunciator Lights CK
 - * Max drop 175 RPM each
 - Max difference 50 RPM

BEFORE TAKE-OFF

- 1 Controls FREE / CORRECT
- 2 Trim TAKE-OFF
- 3 Flaps TAKE-OFF (15°)
- 4 Auto Pilot CK / OFF
- 5 Flight Instruments CK
- 6 Engine Instruments CK
- 7 Circuit Breakers CK
- 8 Fuel Pump ON
- 9 Fuel Selector CONFIRM FULL TANK
- 10 Throttle Friction ADJUST
- 11 Mixture RICH
- 12 Seats LOCKED
- 13 Seat Belts SECURE
- 14 Door LATCHED
- 15 Altimeter SET
- 16 Departure Clearance RECEIVED
- 17 Comm / Nav Radios SET
- 18 Cowl Flaps OPEN

HOLD BARS / HOLD SHORT

- 19 Strobe Lights ON
- 20 Transponder ALT
- 21 Compass & H/I RUNWAY HEADING
- 22 Time Off NOTE

TAKE-OFF CHECKLIST COMPLETE

- 3 Flight Instruments CK
- 4 Engine Instruments CK
- 5 Ammeter CK
- 6 Vacuum 4.4 - 5.4" Hg
- 7 Fuel Pump ON
- 8 Mixture RICH
- 9 Fuel Selector FULL TANK
- 10 Brakes CK

BEFORE LANDING

- 1 Auto Pilot AS REQD
- 2 No Nav Flags CK
- 3 Gear DOWN
- 4 Prop HIGH RPM
- 5 Flaps AS REQD

LANDING CHECKLIST COMPLETE

AFTER LANDING

- 1 Cowl Flaps OPEN
- 2 Flaps UP
- 3 Fuel Pump OFF
- 4 Pitot Heat OFF
- 5 Strobe Lights OFF
- 6 Transponder STANDBY

SHUTDOWN

- 1 Brakes SET
- 2 Trim TAKE-OFF
- 3 Radios OFF
- 4 All Electrical Equipment OFF

- 5 Mixture IDLE CUT-OFF
- 6 Magnetos OFF
- 7 Master Switch OFF
- 8 Map / Panel / Overhead Lights OFF
- 9 Controls SECURE
- 10 Tiedowns / Chocks SECURE
- 11 Brakes RELEASE
- 12 Door LOCK
- 13 Flight Plan CLOSE

NORMAL OPERATING SPEEDS

Mooney 20J	KIAS
Vso Stall Dirty	55
Vs Stall Clean	63
Vr Rotate	62
Vx Best Angle	66
Vy Best Rate	88
Cruise Climb	100
Vfe Flap Extended	115
Vlo Gear Operating	Retract 105 Extend 130
Vle Gear Extended	130
Normal Approach	70
Va Maneuvering	120
Best Glide	85
Demonstrated Crosswind Component	11 KTS
Minimum Octane Fuel	100