

WMFC Mooney M20J Checklist

BEFORE STARTING ENGINE CHECKLIST

1. Dispatch Aircraft - **COMPLETE**
2. Preflight & Pass. brief - **COMPLETE**
3. Seats and Seat belts - **SECURED**
4. Circuit breakers - **IN**
5. Fuel selector valve - **FULLEST TANK**
6. Trim - **SET TO TAKE OFF**
7. Cowl Flaps - **OPEN**
8. Instrument lights - **AS DESIRED**
9. Rotating Beacon - **ON**
10. Alternate static air - **CHECK**
11. Avionics - **OFF**
12. Alt field - **OFF**
13. Master - **OFF**

STARTING ENGINE CHECKLIST

1. Mixture - **RICH** (unless hot start)
2. Prop - **Forward**
3. Throttle - **OPEN 1/8 INCH**
4. Prop - **CLEAR**
5. Master - **ON**
6. Alt field - **ON**
7. Prime - **BOOST PUMP ON/OFF**
8. Mixture - **IDLE CUT OFF**
9. Brakes - **HOLD**
10. Ignition - **START**
11. Mixture - **ENRICHEN**
12. Avionics - **ON**
13. Oil/Fuel pressure - **GREEN**
14. Mixture - **LEAN FOR TAXI**
15. Flaps - **UP**

TAXI CHECKLIST

1. ATIS - **OBTAIN**
2. Altimeter - **SET**
3. GPS - **SET**
4. HSI - **ALIGNED TO COMPASS**
 - a. Course - **SET**
5. Transponder - **SET**
 - a. Traffic scale - **SET**
6. Lights - **AS DESIRED**

BEFORE TAKE OFF/ RUNUP CHECKLIST

1. Flight controls - **FREE/CORRECT**
2. Speed Brakes - **CYCLE**
3. Trim - **CYCLED/SET TO TAKE OFF**
4. Autopilot- **TEST AND SET**
5. Instruments - **SET & CHECKED**
6. Radios - **SET & CHECKED**
7. Annunciator lights - **TEST**
8. Mixture - **RICH**
9. Breaks - **HOLD**
10. Throttle - **2000RPM**
11. Engine instruments - **GREEN**
12. Volts/Amps - **CHECK**
13. Suction - **GREEN**
14. Magnetos - **CHECKED**
15. Prop - **CYCLED**
16. Throttle - **IDLE CHECK**
17. Take off Brief - **COMPLETE**

TAKE OFF CHECKLIST

1. Fuel selector - **FULLEST TANK**
2. Trim - **TAKE OFF**
3. Flaps - **15°**
4. Cowl Flaps - **OPEN**
5. Mixture - **RICH**
6. Prop - **FORWARD**
7. Boost pump - **ON**
8. Lights - **AS DESIRED**
9. Timer - **START**

AFTER TAKE OFF CHECKLIST

1. No available runway - **GEAR UP**
2. Clear of obstacles - **FLAPS UP**
3. Climb speed - **90-100**
4. Throttle - **26"**
5. Prop - **2600RPM**
6. Mixture - **BEST POWER**
7. Engine instruments - **GREEN**
8. Lights - **AS DESIRED**
9. Boost Pump - **OFF 1000AGL**

CRUISE CHECKLIST

1. Throttle - **25"**
2. Prop - **2500 RPM**
3. Cowl Flaps - **CLOSED (CHT below 370°)**
4. Mixture - **LEANED**
5. Engine Instruments - **GREEN**
6. HSI - **ALIGNED TO COMPASS**

DECENT CHECKLIST

1. Fuel selector - **PROPER TANK**
2. Mixture - **ENRICHEN**
3. Cowl flaps - **CLOSED**
4. Seats & belts - **SECURED**
5. Lights - **AS REQUIRED**
6. ATIS - **OBTAINED**

LANDING CHECKLIST

1. Fuel selector - **FULLEST TANK**
2. Boost pump - **ON**
3. Gear - **2 GREEN DOWN AND VERIFIED**
4. Mixture - **RICH**
5. Prop - **FORWARD**
6. Lights - **ON**
7. Final - **70kts - 80kts**

AFTER LANDING CHECKLIST

1. Flaps- **UP**
2. Trim- **SET FOR TAKEOFF**
3. Cowl flaps- **OPEN**
4. Mixture- **LEANED**
5. Boost pump- **OFF**
6. Lights- **AS DESIRED**
7. Speed breaks - **IN**

SHUT DOWN CHECKLIST

1. Avionics - **OFF**
2. Electrical equipment - **OFF**
3. Mixture - **IDLE CUT OFF**
4. Magnetos - **OFF**
5. Master - **OFF**
6. Alt field - **OFF**

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ENGINE FAILURE

1. Speed - 93kts max 83kts light
2. Landing site- SELECT
3. Fuel selector - FULLEST
4. Prop - OUT
5. Mixture - RICH
6. Boost pump - ON
7. Magnetos - BOTH

Speeds

Va.....118kts@2900lbs, 105@ 2300
Vr.....59kts
Vy.....86kts
Vx.....66Kts
Vg.....83kts @2300/93kts @2900
Normal landing.....70kts @2300/80kts @ 2900
Short field full flaps...70kts
Slips/no flap85Kts
Maneuvers120kts
Abeem90kts
Base85kts flap 15°
Final70kts - 80kts Flap 33°
IFR approach conf.....15° flap 90kts
Max gear extension....132kts
Max gear retraction....107kts