



# M20F Checklist

- ✓ Vs0 (Dirty) 54 Kts / 62 MPH
- ✓ Vs1 (Clean) 59 Kts / 69 MPH
- ✓ Vrotate 65 Kts / 75 MPH
- ✓ Vfinal (dirty) 70 Kts / 80 MPH
- ✓ Vx 82 Kts / 94 MPH
- ✓ BEST GLIDE 87 Kts / 100 MPH
- ✓ Vy 94 Kts / 108 MPH
- ✓ Vlo 104 Kts / 120 MPH
- ✓ Vfe 109 Kts / 125 MPH
- ✓ Va 117 Kts / 135 MPH
- ✓ Vno 152 Kts / 175 MPH
- ✓ Vne 174 Kts / 200 MPH

## 1. IFR SPEEDS CLEAN

- ✓ KIAS MP
- ✓ Level 90 16"
- ✓ Level 110 20"
- ✓ Descent 1000 fpm 110 9"
- ✓ IFR SPEEDS GEAR DOWN
- ✓ KIAS MP
- ✓ Level 90 20"
- ✓ Descent 500 fpm 90 14"
- ✓ BEFORE STARTING ENGINE
- ✓ Preflight Inspection COMPLETE
- ✓ Seats, Seatbelts, Harness SECURE
- ✓ Parking Brake SET
- ✓ Circuit Breakers IN
- ✓ Radio Master OFF

- ✓ Fuel Selector FULLEST TANK
- ✓ Cowl Flaps OPEN
- ✓ **STARTING ENGINE**
- ✓ Master Switch ON
- ✓ Gear Light **GREEN**
- ✓ Fuel Pump (Check Pressure) ON
- ✓ Propeller Full Forward
- ✓ Throttle 1/2" OPEN
- ✓ Mixture 5 SECOND RICH/CUTOFF
- ✓ Area CLEAR
- ✓ Beacon ON
- ✓ **Starter ENGAGE**
- ✓ Throttle 1000-1200 RPM When very cold outside, idle at minimum RPM until oil circulation is assured.
- ✓ Oil Pressure CHECK
- ✓ Fuel Pump OFF
- ✓ Standby Vacuum Pump CHECK
- ✓ Suction **GREEN**
- ✓ Ammeter CHECK
- ✓ Mixture LEAN
- ✓ Radio ON
- ✓ Xponder STANDBY
- ✓ Time NOTED
- ✓ **ENGINE RUN-UP**
- ✓ Parking Brake SET
- ✓ Fuel Selector FULLEST TANK
- ✓ Mixture RICH / As Required
- ✓ Throttle 1900 RPM
- ✓ Magnetos (max drop 175, diff 50) CHECK
- ✓ Propeller CYCLE
- ✓ Suction GREEN
- ✓ Ram Air CLOSED
- ✓ Engine Instruments GREEN
- ✓ Throttle IDLE
- ✓ **BEFORE TAKEOFF & TAXI BACK**
- ✓ Ammeter/Annunciator CHECK
- ✓ Flight Instruments SET
- ✓ **Wing Flaps Set For Takeoff**
- ✓ Trim Tab Set For Takeoff
- ✓ Flight Controls Free And Correct
- ✓ Radios SET
- ✓ Door LATCHED
- ✓ Seatbelts and Shoulder
- ✓ Harness
- ✓ FASTENED
- ✓ Parking Brake OFF

- ✓ **RUNWAY ITEMS**
- ✓ Xponder **ALT - 1200**
- ✓ Mixture **SET**
- ✓ Fuel Pump **ON**
- ✓ Strobe Lights **ON**
- ✓ Clock / Timer **START**
- ✓ Window **CLOSE**
- ✓ **AFTER TAKEOFF**
- ✓ Tap brakes and Landing Gear **RETRACT**
- ✓ Flaps **UP**
- ✓ Power 26" MP, 2600 RPM
- ✓ Fuel Pump **OFF**
- ✓ **CRUISE**
- ✓ Power 24" MP, 2400 RPM
- ✓ Mixture **LEAN**
- ✓ Cowl Flaps **CLOSED**
- ✓ Ram Air **OPEN** above 5,000' and only in clean clear air. **DO NOT USE RAM AIR IN IMC!**
- ✓ **DESCENT**
- ✓ ATIS **ACQUIRED**
- ✓ Mixture **RICH**
- ✓ Fuel **FULLEST TANK**
- ✓ Power **AS REQUIRED**
- ✓ Altimeter **SET**
- ✓ Ram Air **CLOSED**
- ✓ **BEFORE LANDING**
- ✓ **Booster Pump ON**
- ✓ **Undercarriage FLAPS, GEAR, LANDING LIGHTS**
- ✓ **Mixture RICH**
- ✓ **Propeller FULL FORWARD**
- ✓ **Seatbelts FASTENED**
- ✓ **AFTER LANDING**
- ✓ **Wing Flaps UP** (on all Mooney models, once up, I then adjust flaps for take off position for next time and to help discourage people from stepping on the flap.)
- ✓ **Cowl Flaps OPEN**
- ✓ **Mixture LEAN**
- ✓ **Transponder STANDBY**
- ✓ **Fuel Pump OFF**
- ✓ **Lights AS REQUIRED**
- ✓ **SHUTDOWN**
- ✓ **Radio Master OFF**
- ✓ **Mixture IDLE / CUTOFF**
- ✓ **Magnetos OFF**
- ✓ **Master Switch OFF**
- ✓ **Interior Dome Light OFF**
- ✓ **Time NOTED**