Cessna M2 Limitations (for STUDY PURPOSES ONLY)

WEIGHTS/ SPEEDS

 MRAMP
 10800

 MTOW
 10700

 MLND
 9900

 MZFW
 8400

 Min/ Max weight in RVSM airspace
 7800/ 10400

Nose Baggage 400 Tail Baggage 325

 MMO
 M .71

 VMO
 263 KIAS

 VFE flaps 15
 200 KIAS

 VFE flaps 35
 161

VFE flaps 60 140 (emergency/ failure only)

VLO Extending; VLE 186 KIAS
VLO Retracting 175 KIAS
Max Tire GS 165 knots
VA (MTOW, SL) 202 KIAS
Min speed for sustained flight in icing 160 KIAS
Min airspeed in RVSM airspace 135 KIAS

ENGINE

Takeoff ITT855Continuous ITT835Transient ITT870

Start ITT 835, 900 (30 sec), 1000 (15 sec)

Takeoff Thrust Time Limit 5 min; 10 min for OEI
Min N2 Idle 46.1% ground; 57.4% flight

 N2 Limit
 100%

 N1 Limit
 104.7%

 Max N1 with tailwind >10 knots
 60%

Tailwind/ X-wind Start 10/12 knots Max Time to Light Off 10 sec Max N2 for zero N1 during start 25% Min Oil Temp for Start -30C Min Oil Temp for >80% N2 10 C Min Battery Temp for Start (Lead Acid or NiCad) -18C Min Voltage for Battery Start 24V Min/ Max GPU Current Capacity for Start 800/1100 A

Starter Limitation 3 per 30 min, 60 sec rest between

Cold soak start limit If cold soaked <-40C, must warm FADEC with electrical power for 3 min, followed by

batt switch cycle

Approved Oil Mobil Jet II, Mobil 254 (mixing OK)

Maximum oil consumption1 qt per 11 hoursMax time of zero or negative-G flight10 seconds

MISC SYSTEM LIMITS

Battery Start Limits 3 per hour (cross gen= 1/3 of a start)

Max Gen Output, ground 210 A

Max Gen Output, Flight 300 A; 250 A above FL350

Max Battery Charge for TO 20A

BATTERY OVERTEMP message TO prohibited if displayed, even if self-clears

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Ground operation of pitot/ static heat 2 minutes
Ground operation of engine/ wing/ windshield AI 2 min if N2 >75%

Ground operation of Wing AI Max 1 min after WING A/I COLD message extinguishes

Minimum N2 for effective wing AI 75%

Min Temp for operation of tail boots -35 C RAT

Max flaps with ice and inop tail boots 15 degrees

Engine AI ON after start Must wait 1 min

Cabin Cold Soak Limit If >2 hrs at <-9C, must warm above 0C for min 20 minutes prior to operations above

FL240 if passengers are in cabin

Tire Pressure Nose 125 (loaded)/ 120 (unloaded), Main 107 loaded, 103 unloaded, all +/- 5

Max Gear/ Flap extension altitude 18,000'
Max altitude with inop AP and YD FL280
Load Factor, Flaps Up -1.44 to 3.6G
Load Factor, Flaps Extended 0 to 2 G

Cabin Pressure Limits -.5 to 8.6 Delta PSI

Max TO/L Tailwind 10 knots

CAS Messages Precluding TO Any Red, ENGINE CNTRL FAULT, any amber unless MEL-able

Runway Surface Limit Paved
Speedbrakes must be retracted by -- on landing 50' AGL

Ground flaps restriction on landing May not be extended for touch and goes

Max Altitude for TO/L10,000'Max normal fuel imbalance200 lbsMax emergency fuel imbalance600 lbsJet A Fuel Temp Limits-35C to 57C

Pulse Lights Must be on LANDING before 300' AGL at night AP Min use heights TO 450' AFL; Enroute 1000'; Approach 160' AFL