

NORMAL & EMERGENCY CHECKLIST – N99376 - Mooney M20K/231

COCKPIT PRE-FLIGHT

Magnetos..... OFF
 Mixture.....IDLE CUT-OFF
 Circuit Breakers..... CHECK
 Avionic Master Switch..... OFF
 Landing Gear Selector..... DOWN
 Master Switch..... ON
 Fuel Gauges..... CHECK
 Lights / Pitot Heat..... CHECK
 Master Switch..... OFF
 Fuel Selector Drain..... L & R
 Controls..... FREE
 Brakes.....SET

OUTSIDE PRE-FLIGHT

RIGHT WING

Flaps and Ailerons..... CHECK
 Wing Tip / Lights..... CHECK
 Leading Edge..... CHECK
 Frost..... REMOVE
 Fuel Tank.....CHECK QUANTITY
 Tiedown..... REMOVE
 Fuel Drain..... SAMPLE
 Right Landing Gear..... CHECK
 Tank Vent..... CLEAR

COWLING

Oil Level..... CHECK (>5 QTS)
 Engine Preheat..... REMOVE
 Air Inlet Cover..... REMOVE
 Cowl Fasteners..... CHECK
 Windshield..... CHECK
 Prop..... CHECK
 Alternator Belt..... CHECK
 Air Filter..... CHECK
 Landing Gear..... CHECK
 Visual Engine Inspection COMPLETE

LEFT WING

Leading Edge..... CHECK
 Frost..... REMOVE
 Pitot Tube..... CHECK
 Stall Switch..... CHECK
 Fuel Tank.....CHECK QUANTITY
 Tiedown..... REMOVE
 Fuel Drain..... SAMPLE
 Right Landing Gear..... CHECK
 Tank Vent..... CLEAR
 Wing Tip / Lights..... CHECK
 Ailerons and Flaps..... CHECK

FUSELAGE

Tiedown..... REMOVE
 Elevator and Rudder..... CHECK
 Antennas..... CHECK
 Right / Left Static Ports..... CHECK
 Static System Drain..... CHECK
 Tail Cone Access Door..... SECURE
 Lights..... CHECK

NORMAL OPERATING SPEEDS

MPH KIAS

V _{so} Stall Dirty.....	63	55
V _s Stall Clean.....	72	63
V _r Rotate.....	71	62
V _x Best Angle.....	82	71
V _y Best Rate.....	110	96
V _{fe} Flaps Extended.....	128	112
V _{lo} Gear Retraction.....	123	107
V _{lo} Gear Extension.....	152	132
V _{le} Gear Extended.....	152	132
V _a Maneuvering.....	137	119
Normal Approach.....	81	70
Cruise Climb.....	115	100
Best Glide.....	100	87

FUEL AND WEIGHT

Max Fuel (useable)..... 75.6 U.S. Gal.
 Oil Level..... max.8 QTS, min.5 QTS
 Empty weight..... 1957 lbs
 Max. T/O weight..... 2900 lbs

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BEFORE STARTING

Passenger Briefing..... COMPLETE
 Paperwork..... COMPLETE
 Seats / Seat Belts..... SECURE
 Door..... CLOSED/SEALED
 Landing Gear Switch..... DOWN
 Master Switch..... ON
 Avionic Master Switch..... ON
 Comm. / Radios..... CHECK / SET
 ATIS..... RECEIVED
 Avionic Master Switch..... OFF
 Fuel Pumps..... OFF
 Alternate Static Source..... OFF
 Lights (Int/Ext)..... OFF
 Throttle..... CLOSED
 Cowl Flaps..... OPEN
 Alt Air..... OPEN then CLOSED
 Flap Switch..... CENTERED
 Trim..... NEUTRAL
 Fuel Selector..... FULLEST TANK
 ELT..... ARM

STARTING

Throttle..... ¼ OPEN
 Prop..... HIGH RPM
 Mixture..... RICH
 Master Switch..... ON
 Prime..... 3-5 Sec
 Prop Area..... CLEAR
 Magnetos..... ON / START
 Throttle..... 1000 RPM
 Oil Pressure..... CHECK
 Ammeter..... CHECK

AFTER STARTING

Engine Instruments..... NORMAL
 Mixture..... LEAN
 Avionic Master Switch..... ON
 Comm. / Radios..... CHECK / SET
 Transponder..... STANDBY
 Altimeter..... SET
 Heading Indicator..... SET
 Attitude Indicator..... SET
 Nav. Lights..... AS REQUIRED
 Ldg. / Taxi Light..... AS REQUIRED
 Autopilot..... CHECK
 Fuel Selector..... SWITCH TANKS

TAXI

Brakes..... CHECK
 Engine Instruments..... CHECK
 Flight Instruments..... CHECK

ENGINE RUN-UP

Brakes..... HOLD / SET
 Fuel Selector..... FULLEST TANK
 Mixture..... RICH
 Throttle..... 1900-2000 RPM

- Engine Instruments..... CHECK
- Ammeter..... LOAD CHECK
- Vacuum..... 4.6 – 5.4" Hg
- Magnetos ..R / BOTH – L / BOTH*
- Prop..... CYCLE
- Throttle..... IDLE CHECK

 Throttle..... 1000 RPM
 Annunciator Panel..... CHECK
 * Max. Drop..... 175 RPM each
 * Max. Difference..... 50 RPM
 Alternative:
 Mixture..... LEAN
 EGT..... CHECK RISE

BEFORE TAKE-OFF

Controls..... FREE / CORRECT
 Engine Instruments..... CHECK
 Flight Instruments..... SET / CHECK
 Altimeter..... CHECK
 Comm. / Radios..... CHECK / SET
 Trim..... SET TAKE-OFF
 Flaps..... SET TAKE-OFF
 Cowl Flaps..... OPEN
 Circuit Breakers..... CHECK
 Fuel Selector..... FULLEST TANK
 Throttle Friction..... ADJUST
 Prop..... HIGH RPM
 Mixture..... RICH
 Seats / Seat Belts..... CHECK
 Doors..... LATCHED
 Auto Pilot..... OFF
 Oil Temp..... > 100

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CLEARED FOR TAKE-OFF

Strobe Lights ON
Ldg. / Taxi Light ON
Transponder ALT
Pitot Heat AS REQUIRED
Heading Indicator RWY HEADING
Take-Off Briefing COMPLETE

AFTER TAKE-OFF

Landing Gear UP
Flaps UP
Climb Power 40" Hg - 2700 RPM
Mixture 1400°TIT
Engine Instruments CHECK
Climb Speed 0-120 KIAS

CRUISE

Engine Instruments NORMAL
Flight Instruments CHECK
Ammeter CHECK
Vacuum 4.0 – 5.5" Hg
Ldg. / Taxi Light OFF
Cowl Flaps CLOSED
Cruise Power 31" – 2500 RPM
Mixture LEAN AS NECESSARY
Fuel Selector AS REQUIRED

DESCENT

Engine Instruments CHECK
Flight Instruments CHECK
Ammeter CHECK
Vacuum 4.0 – 5.5" Hg
Altimeter SET
Cowl Flaps CLOSED
Power 20" – 2500 RPM
Mixture PEAK TIT
Fuel Selector FULLEST TANK
Pitot Heat AS REQUIRED
Ldg. / Taxi Light ON
ATIS RECEIVED
Approach Briefing COMPLETE

CLEARED TO LAND

Landing Gear DOWN
Fuel Pump OFF
Parking Brake OFF
Fuel Selector FULLEST TANK
Prop HIGH RPM
Mixture RICH
Flaps SET AS REQUIRED
Trim SET
GUMPS CHECK

AFTER LANDING

Cowl Flaps OPEN
Flaps UP
Pitot Heat OFF
Strobe Lights OFF
Ldg. / Taxi Light AS REQUIRED
Transponder STANDBY

SHUTDOWN

Brakes SET
Trim TAKE-OFF
Throttle 1000 RPM
Avionic Master Switch OFF
Electrical Equipment, Lights OFF
Magnetos GROUNDING CHECK
Mixture IDLE CUT-OFF
Magnetos OFF
Master Switch OFF
Brakes RELEASE

DISTANCE to descent [NM]

@ 500 fpm

$[GS/30] \times \Delta H$ in thousand feet

SINKRATE @ 3° descent

GS*5

DISTANCE to descent [NM]

3 x ΔH in thousand feet

CAUTION

Do not exceed 1650° TIT/460° CHT

5 Minute idle for Turbo Cooldown on landing (count idle on approach)

Rev E (3/28/05)

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ICING CONDITIONS

Alternate Air ON
Cabin Heat OFF
Pitot Heat ON
Propellor 2700 RPM
Mixture 125° RICH OF PEAK TIT
Cowl Flaps OPEN

ENGINE FAILURE / ROUGH

Airspeed 87 KIAS
Best Landing Field SELECT
Checklist EXECUTE
Throttle CRUISE POSITION
Low Fuel Boost Pump ON
Fuel Selector OTHER TANK
Mixture ... IDLE, ADVANCE to START
Magnetos CK BOTH ON
Prop HIGH RPM
Throttle .. RETARD AS NECESSARY

IF FAILURE TO START

ELT ARM
Transponder 7700
Radio MAYDAY or 121.5
Seat Belts SECURE
Mixture IDLE
Fuel OFF
Magnetos OFF
Flaps AS REQUIRED
Gear UP or DOWN
Door UNLOCK
Master OFF before Landing

Glide Ratio @ 87 KIAS, clean

2.5 NM per 1.000 ft Altitude

ENGINE FIRE IN FLIGHT

Fuel OFF
Throttle CLOSED
Mixture IDLE
Magnetos OFF
Cabin Vent and Heat CLOSED
Landing Gear AS REQUIRED
Wing Flaps AS REQUIRED
Land ASAP

ENGINE FIRE ON GROUND

Mixture IDLE CUT-OFF
Fuel Selector OFF
Magnetos OFF
Master Switch OFF

ELECTRICAL FIRE

Master Switch OFF
Cabin Vent OPEN
Cabin Heat CLOSED
Circuit Brakers CHECK

GEAR EXTENSION FAILURE

Airspeed < 132 KIAS
Gear Circuit Breaker... CHECK / OFF
Gear Selector DOWN
Red Handle FORWARD / LIFT
T-Handle PULL / RETURN
Landing Gear Light GREEN
Landing Gear Indicator ALIGNED
Red Handle ... SECURE AND LATCH
Gear Circuit Breaker RESET

ALTERNATOR WARNING

Avionics Master Switch OFF
Master Switch OFF then ON
Alternator Circuit Breaker RESET

IF WARNING CONTINUES

Alternator Circuit Breaker OFF
Electrical Equipment OFF
LAND ASAP

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