

# Mooney M20K – N5659L



## Cockpit

Parking Brake.....SET  
Documents.....ARROW  
Electrical Switches.....OFF  
Circuit Breakers.....NOT TRIPPED  
Magneto.....OFF, KEY OUT  
Mixture.....OUT  
Gear Lever.....DOWN  
Hobbs/Tach.....RECORD  
Master Switches.....ON  
Fuel Quantity.....CHECK GAUGES/  
VISUALLY  
Fuel Selector.....L/R Gascolater PULL  
Flaps.....EXTEND  
Lights.....ON INSPECT  
Pitot Heat.....CHECK IFR  
Master Switches.....OFF  
Control Lock.....REMOVE

## Exterior

Left Wing.....DISCONNECT TIE  
DOWN  
Left Tank.....VISUALLY CHECK  
QUANTITY  
Pitot/Static Port.....CLEAR  
Fuel Vent.....CLEAR  
Left Aileron.....MOVMENT  
FREE/CORRECT  
Left Flap.....EXTENDED  
Left Wing Sump.....TAKE SAMPLE  
Left Main Gear.....SHOCK  
DISK/TIRE/BRAKES  
Baggage Door.....SECURE  
Tail.....DISCONNECT TIE DOWN  
Horizontal Stabilizer.....MOVMENT  
FREE/CORRECT  
Rudder.....CHECK ATTACHMENT  
POINTS  
Right Wing.....DISCONNECT TIE  
DOWN  
Right Tank.....VISUALLY CHECK  
QUANTITY  
Right Aileron.....MOVMENT  
FREE/CORRECT  
Right Flap.....EXTENDED  
Right Wing Sump.....TAKE SAMPLE

## Exterior Continued

Right Main Gear.....SHOCK  
DISK/TIRE/BRAKES  
Engine Sump.....PULL 3-5 SEC  
Oil.....MIN 5Qts MAX 8Qts  
Propeller.....CHECK FOR DAMAGE  
Nose Gear.....SHOCK DISK/ TIRE  
Cowl Flaps.....SECURE  
Turbocharger.....CHECK OIL  
LEAKS  
Exhaust Piper.....SECURE

## Before Starting

Seat Belts.....ON  
Parking Brake.....SET  
Magnetos.....OFF  
Master Switch.....OFF  
Radio Master.....OFF  
Fuel Boost Pump.....OFF  
Alternate Static.....OFF  
All Lights.....OFF  
Pitot Heat.....OFF  
Throttle.....CLOSED  
Propeller.....HIGH RPM  
Mixture.....CUTOFF  
Cowl Flaps.....OPEN  
Alternate Air.....OPEN/ THEN CLOSE  
**SEE POH**  
Flaps.....SET TAKEOFF  
Cabin Heat.....OFF  
ELT.....ARM  
Passenger.....BRIEFED

## Engine Starting

Throttle.....FULL DURING PRIMING  
**SEE POH**  
Throttle.....OPEN 1 / 4 INCH  
Propeller.....HIGH RPM  
Mixture.....FULL RICH  
Master.....ON  
Lights.....NAV & BEACON  
Annunciator Lights.....TEST  
Propeller.....CLEAR  
Starter.....TURN & PUSH  
Throttle.....1000 RPM  
Oil Pressure.....CHECK  
Ammeter.....CHECK

## Warm Up

Fuel Boost Pump.....OFF  
Throttle.....1200 RPM  
Mixture.....FULL RICH  
Radio Master.....ON  
Altimeter.....SET  
Fuel Selector.....SWITCH TANKS

## Taxi

Parking Brake.....RELEASE  
Brake.....CHECK  
Taxi Light.....AS NEEDED  
Taxi Clearance.....AS  
NEEDED/DIAGRAM  
Throttle.....AS NEEDED

## Run Up

Park Brake.....SET  
Doors/Windows....CLOSED/LOCKED  
Flight Controls.....FREE AND  
CORRECT  
Fuel Selector.....FULLEST TANK  
Throttle.....1200 RPM  
Propeller.....HIGH RPM  
Mixture.....RICH  
Cowl Flaps.....OPEN  
Alternate Air.....CLOSED  
Oil Temperature.....GREEN  
Throttle.....2000 RPM  
Magnetos.....GROUND CHECK  
**MAX DROP 150 RPM/ 50 RPM**  
**DIFFERENCE**  
Propeller.....CYCLE 3x  
Throttle.....1000 RPM  
Trim.....TAKEOFF  
Flaps.....TAKEOFF  
Avionics.....PROGRAM  
Transponder.....VERIFY ALT/CODE  
Clearance.....OBTAIN  
**IF NEEDED**  
Strobe Light.....ON  
Nav Light.....ON FOR ADSB  
Park Brake.....RELEASE

### Normal Takeoff

Throttle.....40" 2700 RPM  
 Engine Inst.....GREEN  
 Lift Nose.....67KTS  
 Rotate.....74 KTS  
 Climb.....74 KTS CLEAR OF  
 OBSITICALS  
 Landing Gear.....RETRACT  
 Flaps.....RETRACT  
**CLEAR OF OBSITICALS &  
 ACCLERATION PAST 90  
 KTS**

### Climb / Normal

Power.....33 INCHES 2600  
 RPM  
 Mixture.....RICH  
 Cowl Flaps.....OPEN  
 Airspeed.....95-115KTS

### Climb / Best Rate

Power.....40 INCHES 2700  
 RPM  
 Mixture.....RICH  
 Cowl Flaps.....OPEN  
 Airspeed.....83-96KTS  
 See POH for best angle

### Cruise

Pitch.....LEVEL AT ALT  
 Airspeed.....CRUISE SPEED  
 Throttle.....30 INCH  
 Propeller.....2300 RPM  
 Mixture.....LEAN TO 12GPH  
 Cowl Flaps.....MAINTAIN  
 CHT GREEN ARCH  
 TIT.....1650° MAX

### Descent

Seat Belts.....ON  
 Weather.....OBTAIN  
 Fuel Selector.....FULLEST  
 TANK  
 Mixture.....RICH BELOW  
 3000FT  
 Throttle.....25 INCHES  
 Propeller.....AS REQUIRED  
 Cowl Flaps.....CLOSED  
 CHT 250°

### Before Landing

Lights.....AS NEEDED  
 Landing Gear.....DOWN  
 BELOW 132KTS  
 Mixture.....FULL RICH  
 Propeller.....HIGH RPM  
 ON FINAL  
 Flaps.....AS NEEDED  
 FULL BELOW 112KTS  
 Trim.....AS NEEDED

### Landing

Airspeed.....75 KTS  
 Touchdown.....MAINS  
 Landing Roll.....LOWER  
 NOSE GENTLY  
 Brakes.....MINIMUM  
 REQUIRED

### Taxi /After Landing

Throttle.....1000RPM  
**MINIMUM TO LOWER TIT**  
 Flaps.....RETRACT  
 Cowl Flaps.....OPEN  
 Trim.....TAKEOFF

### Shut Down

Parking Brake.....SET  
 Throttle.....TIT UNDER  
 800° 1000 RPM - 5 MIN  
 Radio Master.....OFF  
 Lights.....OFF  
 Magneto.....GROUND CHECK  
 Oil Temp/Pressure.....GREEN  
 Mixture.....CUT OFF  
 Magnetos.....OFF/KEY OUT  
 Master Switch.....OFF

### Fuel - Oil

Fuel - 78.6 GAL Usable - 75.6GAL
Oil - 5 Qrt MIN - 8 Qrt MAX

### V Speeds ALL KNOTS

Max X wind - 12	Vno- 174	Vg- 80
Vr- 74	Vne- 196	Va- 101/118
Vx-74	Vs0- 56	VLO- 132
Vy- 95	Vs1 - 61	VLE- 132
Vfe- 112	1.3 Vs0- 73	VLO RET - 107

### Cruise Profiles

Alt.	RPM	MP	FF
2000	2300	29	11.5
4000	2300	29	11.5
6000	2300	28	11.5
8000	2300	28	11.5
10000	2300	28	11.5
12000	2300	27	11.5

### Engine Failure - Takeoff Roll

Throttle.....CLOSED  
Braking.....MAX  
Fuel Selector.....OFF  
Magneto.....OFF  
Master.....OFF

### Engine Failure - Climb Out

Nose.....Vg 80 KTS  
Fuel Selector.....FULLEST TANK  
Throttle.....FULL  
Mixture.....FULL  
Magneto.....BOTH  
Propeller.....FULL  
High Boost.....ON

### Engine Failure - Airborne

Throttle.....FULL  
Propeller.....2700 RPM

**If ALTERNATE AIR LIGHT IS ON  
PROCEED TO POWER LOSS AIR  
FILTER**

High Boost Pump.....ON  
Fuel Selector.....FULLEST TANK  
Magneto.....BOTH

**If engine does not restart**

Mixture.....CUTOFF  
Alternate Air.....ON  
Mixture.....ADVANCE SLOWLY

**If engine restarts**

High Boost.....OFF  
Alternate Air.....OFF

**Prepare for Power OFF Landing**

### Power Loss - Air Filter

#### Blockage

Pitch.....Vg  
Alternate Air.....ON  
Mixture.....CUTOFF  
Throttle.....FULL  
Boost Pump.....OFF  
Propeller.....2700 RPM  
Mixture.....ADVANCE SLOWLY  
Magnetos.....BOTH

## Emergency

### Fire - In Flight

Fuel Selector.....OFF  
Throttle.....CLOSED  
Mixture.....CUTOFF  
Magnetos.....OFF  
Cabin Vents.....CLOSED  
Landing Gear.....AS NEEDED  
Pitch.....EXTINGUISH FIRE  
Fire Extinguisher.....USE IF  
EQUIPED

**LAND AS SOON AS PRACTICAL**

### Turbocharger Failure - In Flight - Engine Running

Throttle.....MINIMAL  
Propeller.....AS NEEDED  
Mixture.....AS NEEDED  
Land.....AS SOON AS PRACTICAL

### Turbocharger Failure - In Flight - Engine Out

Mixture.....CUTOFF  
Throttle.....FULL  
Propeller.....2700 RPM  
Throttle.....30 IN MP  
Mixture.....ADVANCE SLOWLY  
Land.....AS SOON AS PRACTICAL

### Engine Roughness

Engine instruments.....CHECK  
Fuel selector.....OTHER TANK  
Mixture.....READJUST  
to power setting being used

Ignition.....CHECK if mixture  
readjustment is ineffective

Throttle.....RETARD  
until roughness is minimal  
Magneto.....R then L, BOTH

**If severe engine roughness  
cannot be eliminated**

LAND as soon as practicable.

### Fuel Vapor

Low Fuel Boost Pump.....ON  
Fuel Flow.....MONITOR  
Low Fuel Boost.....OFF  
**(If condition still exists, repeat  
procedure)**

### Engine Driven Fuel Pump Failure

Mixture.....Idle Cutoff  
Throttle.....Cruise Position  
High Boost Pump.....ON  
Mixture.....Increase until engine  
starts and adjust for smooth engine  
operation

**Land as soon as practicable**

### Reduction In Power

**Interruption of fuel flow,  
turbocharger "run-down" (engine  
surging)**

Mixture Control.....Idle Cut off  
Fuel Selector.....OTHER TANK  
Low Fuel Boost Pump.....On 3-5 sec  
Throttle.....CRUISE POSITION  
Propeller.....2700 RPM  
Mixture.....ADVANCE SLOWLY  
Boost Pump.....OFF  
Mixture.....AS NEEDED

**If engine does not restart**

High Fuel Boost.....ON

**If engine does not restart, repeat  
after descending below 12000**

### High CHT

Mixture.....READJUST to proper fuel  
flow for power being used  
Cowl Flaps.....OPEN as required  
Airspeed.....INCREASE  
Power.....REDUCE if temperature  
cannot be maintained within limits

### High Oil Temp

Cowl flaps.....OPEN as required  
Airspeed.....INCREASE  
Power.....REDUCE

**Prepare for possible engine failure if  
temperature continues high.**

### Low Oil Pressure

Monitor.....Oil temperature and pressure.

Pressure below 10 PSI.....**Expect engine failure, proceed to POWER OFF landing.**

### Engine Fire - Ground

Mixture.....Idle Cutoff

Fuel Selector Valve.....OFF

Magneto/Starter Switch.....OFF

Master.....OFF

### Low Fuel Flow

Check mixture.....ENRICH

Fuel Selector.....FULLEST TANK

Boost Pump.....AS NEEDED

**landing should be made as soon as practicable.**

### UNLATCHED DOOR IN FLIGHT

Airspeed.....96 KIAS

Pilot's Window.....OPEN

Aircraft.....RIGHT SIDESLIP

(Right bank with left rudder).

**Shut the door and latch closed**

### ALTERNATOR LOW VOLTAGE

**Voltage warning light**

**Alternator Field Circuit Breaker - RESET ONCE.**

**If warning light still flashing•**

Alternator Field Circuit

Breaker.....PULL

Non-essential Electrical

Equipment.....OFF

**Land as soon as practicable**

### FAILURE OF LANDING GEAR TO RETRACT

**GR Safety By Pass and both gear annunciator lights illuminated, gear warning horn activated.**

**"GR SAFETY BY PASS" Switch- DEPRESS until gear fully**

**retracted.**

"GEAR UNSAFE" and "GEAR

DOWN " Lights.....OUT

"GEAR CONT." Circuit

Breaker.....PULL

(Warning horn off)

Gear

Extension.....RESET

"Gear Cont." Circuit Breaker.

Gear Switch.....DOWN

Check "AIRSPEED" safety switch

as soon as practicable.

### FAILURE OF LANDING GEAR TO EXTEND ELECTRICALLY

Airspeed.....132 KIAS

Landing Gear Actuator Circuit

Breaker.....PULL

Gear Switch.....DOWN

Manual Gear Extension

Mechanism.....LATCH

FORWARD, LEVER BACK.

**Slowly pull "T" handle 1 to 2**

**inches to rotate clutch**

**mechanism and allow it to**

**engage drive shaft.**

T-handle.....**PULL (12 to**

**20 inches) and RETURN until gear**

**is down and locked, GEAR DOWN**

**light ILLUMINATED (12 to 20**

**pulls).**

**Visual Gear - Down Indicator -**

**Return lever to normal position**

**and secure with latch.**

**Reset Landing Gear Actuator**

**Circuit Breaker**

### EMERGENCY EXIT OF AIRCRAFT

**Pull latch handle aft. Open door and exit aircraft.**

**Baggage Compartment Door**

**Fold rear seat backs forward, climb over. Pull off plastic cover.**

**Pull white knob. Lift "UP" red handle.**

### ALTERNATOR FAILURE

**Voltage warning light illuminated**

Radio Master.....OFF

Master.....OFF, then ON

**If Warning Light is still**

**illuminated, the following steps**

**are required:**

Alternator Field Circuit

Breaker.....Pull

Non-essential Electrical

Equipment.....OFF

**Land as soon as practicable.**

### Power Off - Gear

#### UP/Down

ELT.....Armed

Seat belts.....Secure

Cabin door.....Unlatched

Fuel selector.....OFF

Mixture.....Idle Cutoff

Magneto.....OFF

Flaps.....Full Down (33°)

Gear.....Down or up

depending on terrain

Approach speed.....75 KIAS

Master.....Off, prior to landing

### Electrical Fire - Flight

Smoke in Cabin)

Master Switch.....OFF

**Stall warning is not available**

**with master switch OFF**

**Gear warning is not available**

**with master switch OFF**

Cabin Ventilation.....Open

Heating Controls.....Closed

Circuit Breakers.....Check

**Land as soon as practicable**

## Emergency General

### Check List Legend

Pre-Flight

Engine Checks

Normal Operations

Emergency

### Emergency Radio Calls

Frequency - 121.5 - **STAY WITH**

**ATC IF ALREADY TALKING TO THEM**

MAYDAY - 3x ( Life Threatening )

PAN - 3x (Non-Life Threatening )

### Squawk Codes

7500 - Hijacking

7600 - Lost Comms

7700 - Emergency

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