

BLUE SKIES FLYING CLUB

THE SKY'S THE LIMIT

MOONEY 1965 M20E N5733Q

CHECKLIST

PREFLIGHT INSPECTION

CABIN

Prep Fuel Can, Tow Bar, Knee

Pad[']

ADS-B IN INSTALL

Flight Circle DISPATCH

Window OPEN

Control Wheel Lock REMOVE

Keys OUT OF IGNITION

Switches OFF

Fuel Selector CHECK LEFT, RIGHT

Fuel Selector Drain

CAN

PULL 5 SECS INTO

Flaps Down

Master Switch ON

Gear Indicator Lights CHECK

Exterior Lights ON

Cowl Flaps OPEN

Electrical Walk Around CHECK

Lights/Switches OFF (Through Window)

PREFLIGHT INSPECTION (CON'T)

RIGHT FUSELAGE

Static Port CLEAR

Skin INSPECT

Access Panels SECURED

EMPENAGE

Tiedown REMOVE

Elevator, Rudder, Skin INSPECT

LEFT FUSELAGE

Tailcone Access Door SECURED

Static Port CLEAR

Skin/Access Panels INSPECT

LEFT WING

Skin INSPECT

Flaps INSPECT

Aileron INSPECT

Control Linkages INSPECT

Leading Edge INSPECT

Pitot Tube REMOVE COVER

Stall Warning Vane INSPECT

PREFLIGHT INSPECTION (CON'T)

Fuel Tank CHECK LEVEL

Fuel Tank Cap SECURE

Chocks REMOVE

Tie Down REMOVE

Gear Shocks INSPECT

Tire and Brakes INSPECT

Fuel Drain SUMP

Fuel Tank Vent CHECK

Windshield CLEAN

Left Cowl Fasteners SECURE

NOSE

Propeller and Spinner INSPECT

Forward Engine CHECK

Boost Air Scoop CLOSED AND SEALED

Landing Light CHECK

Nose Gear CHECK

Shock Discs CHECK

Right Cowl Fasteners SECURED

Engine Oil CHECK

PREFLIGHT INSPECTION (CON'T)

Exhaust Pipe INSPECT

Right Air Inlet CLEAR

Windshield CLEAN

RIGHT WING

Fuel Drain SUMP

Tank Vent UNOBSTRUCTED

Chocks REMOVE

Gear Shocks INSPECT

Tire and Brakes INSPECT

Fuel Tank CHECK LEVEL

Fuel Tank Cap SECURE

Leading Edge INSPECT

Wing Skins INSPECT

Aileron INSPECT

Flaps INSPECT

Baggage Door CLOSED AND LATCHED

Overview Walkaround INSPECT

Weight and Balance Calculations As Needed.

PASSENGER BRIEFING

Seat Adjustment

Seat Belts

Door Latch/Unlatch

Door in Emergency

Air Vents and Heat

Controls and No Touching

Fire Extinguisher

Medical Issues/Sick Sack

Bathroom

See and Say Traffic

Photography

Headset Ops

Sterile Cockpit

Emergencies and Go-arounds

Life Vests

Questions?

BEFORE STARTING ENGINE

ELT ARMED

Door CLOSE AND LATCH

Loose Items SECURED

Seat Belts ADJUST AND LOCK

Night Flight FLASHLIGHT AVAIL.

Fuel Selector Valve FULLEST TANK

Switches OFF

Parking Brake SET

Power Boost OFF

Cowl Flaps OPEN

Throttle OPEN 1/8"

Mixture Control IDLE CUTOFF

Propeller FULL FORWARD

Timer/Stopwatch START

ENGINE START

Master Switch ON

Fuel Pump ON/CHECK PRESSURE

Mixture FULL RICH 3 SEC; AFT

Area CLEAR

Ignition START AND PRESS IN

Mixture FULL RICH SLOWLY

Throttle 1000 - 1200 RPM

Oil Temp and Pressure GREEN ARC

Instruments CHECK

Mixture LEAN FOR TAXI

Ammeter CHECK (PITOT HEAT)

Fuel Flow CHECK

IAAI

Avionics Master ON

Head Phones ON AND CHECK

Transponder 1200

GPS SET/PROGRAM

Radios SET

Weather MONITOR

Altimeter SET

Heading Indicator SET

Step RETRACT

Ground Ops RADIO CALLS

Brakes and Steering TEST

Compass CHECK STABLE

Turn Coordinator MOVEMENT

Heading Indicator MOVEMENT

Attitude Indicator UPRIGHT

RUN-UP

Nose Wheel STRAIGHT

Brakes SET

Flight Controls FREE AND CORRECT

Fuel Selector (timer) FULLEST TANK/SET

Cowl Flaps OPEN

Power Boost OFF

Trim SET FOR TAKEOFF

Flaps SET FOR TAKEOFF

Propeller FULL FORWARD

Mixture FULL RICH

Toe Brakes HOLD

Throttle 1700 RPMS

Oil Temp/Pressure IN GREEN

Cylinder Head Temp CHECK

Suction 4.5 - 5.5

Ammeter CHECK

RUN-UP (CON'T)

Magnetos CHECK <125 RPM

Propeller CYCLE 3X

Throttle FULL IDLE THEN 1000

Fuel Pump CHECK OFF - ON

Window and Door CLOSED AND

LOCKED

Lights ON AS REQ'D

Transponder ALT

Seats LOCKED

Abort Plan CHECK

Taxi TO HOLD SHORT

Before TO RADIO CALLS

TAKEOFF

Propeller FULL FORWARD

Mixture FULL RICH

Throttle FULL

Gauges GREEN AND ALIVE

Rotate 65 - 75 MPH

Brakes TAP

Gear RETRACT

Flaps UP

CLIMB

Cruise Climb 26" X 2600 RPM

Airspeed Vy = 105 MPH

Fuel Pump OFF

Fuel Pressure CHECK

Landing Light OFF

CRUISE

Cowl Flaps CLOSED

Trim LEVEL FLIGHT

Power KEY NUMBERS

Mixture 25° LOP

FUEL TANK CHANGE

Fuel Pump ON

Fuel Selector OPPOSITE TANK

Fuel Pump OFF

Clock TIME

DESCENT

Seat Belts FASTENED

Power AS REQ'D

Cylinder Head Temp >300°

Weather GET

Altimeter SET

DESCENT (CON'T)

Radios SET TO CTAF/TOWER

Approach Procedures BRIEFED

Tower / Traffic CONTACT/REPORT

APPROACH / PATTERN

Fuel Pump ON

Fuel Selector FULLEST

Landing Light ON

Power Boost OFF

Gear DOWN <120MPH

Gear Light CHECK

Mixture FULL RICH

Propeller FULL FORWARD

Flaps DOWN 15° <100MPH

Downwind Airspeed 90 MPH

Base Airspeed 80 MPH

DESCENT (CON'T)

Flaps (base) DOWN

GUMPS CHECK

Final Airspeed 80 MPH

Flaps FULL

GUMPS CHECK

LANDING

NORMAL

Airspeed 75 - 80 MPH

Flaps FULL

Touchdown MAIN WHEELS

Landing Roll NOSE WHEEL DOWN

Clear of Runway RADIO CALL

Taxi RADIO CALL

Flaps UP

AFTER LANDING

Fuel Pump OFF

Lights AS NEEDED

Cowl Flaps OPEN

Trim TAKEOFF

Fuel BOTH TANKS FULL

Step LOWER

Throttle 1000 RPM

Avionics Master OFF

Mixture IDLE CUTOFF

Magnetos OFF

Throttle FULL AFT

Master Switch OFF

Timer/Stopwatch STOP

Flight Circle CHECK IN

Control Lock INSTALL

Wheel Chocks INSTALL

AFTER LANDING (CON'T)

Tiedown INSTALL

Pitot Tube COVER

Leading Edges CLEAN

Windshield CLEAN

Canvas INSTALL

Tools and Equipment STOW

Job Box LOCK

Keys IN LOCK BOX

Note: Please leave our plane cleaner than you found it.

EMERGENCY PROCEEDURES

ENGINE FAILURE - TAKEOFF ROLL

Throttle IDLE

Brakes APPLY

Mixture IDLE CUTOFF

Ignition OFF

Master Switch OFF

ENGINE FAILURE - AFTER TAKEOFF

Airspeed BEST GLIDE

Mixture IDLE CUTOFF

Fuel Selector OFF

Ignition OFF

Flaps AS NEEDED

Master Switch OFF

Cabin Doors UNLATCH AND BLOCK

EMERGENCY PROCEEDURES

ENGINE FAILURE - IN FLIGHT

Airspeed TRIM FOR BEST

GLIDE

Landing Area SELECT

Fuel Selector FULLER TANK

Mixture FULL RICH

Ignition BOTH - START

If no restart:

Mixture IDLE CUTOFF

Fuel Selector OFF

Ignition OFF

Master Switch OFF

Prepare for FORCED LANDING

EMERGENCY PROCEEDURES

ENGINE FIRE - ON GROUND

Mixture IDLE CUTOFF

Fuel Selector OFF

Ignition OFF

Master Switch OFF

Brakes HOLD

Evacuate IMMEDIATELY

Fire Extinguisher USE IF ABLE

ENGINE FIRE - IN FLIGHT

Mixture IDLE CUTOFF

Fuel Selector OFF

Master Switch OFF

Cabin Heat and Air CLOSED

Airspeed INCREASE

Prepare For FORCED LANDING

EMERGENCY PROCEEDURES

ELECTRICAL FIRE - SMOKE IN CABIN

Master Switch OFF

Vents OPEN

Cabin Heat OFF

Fire Extinguisher ACTIVATE

After confirming fire is out:

Master ON

Land ASAP

ALTERNATOR FAILURE

Alternator Circuit Breaker. CHECK AND RESET

Reduce Electrical Load. AS NEEDED

Land ASAP

LOCAL WX FREQUENCIES

S50 CTAF	122.975	KAWO AWOS	135.625
KSEA ATIS	118.0	KBVS AWOS	121.125
KPLU AWOS	128.575	KPWT AWOS	121.2
KRNT ATIS	126.95	KTIW ATIS	124.05
KPAE ATIS	128.65	KOLM ATIS	135.725

LIGHT GUN SIGNALS

	INFLIGHT	ON GROUND
	CLEARED TO LAND	CLEARED FOR TAKEOFF
	RETURN FOR LANDING	CLEARED TO TAXI
	YIELD, CONTINUE CIRCLING	STOP
	UNSAFE, DO NOT LAND	TAXI CLEAR OF RUNWAY
	N/A	RETURN TO STARTING PT.
	EXERCISE EXTREME CAUTION	EXERCISE EXTREME CAUTION

NOTES

QUICK POWER SETTINGS

RPM	74%	64%	55%
2600	22"	19″	16″
2500	23"	20″	17"
2400	24"	21"	15″
2350	24.5"	21.5"	18.5″
KEY#	48	45	42

M20E IMPORTANT SPEEDS

Vr	NORMAL TAKEOFF	65-75
Vx	BEST ANGLE OF CLIMB	80
Vy	BEST RATE OF CLIMB	105
Va	MANEUVERING SPEED	135
Vfe	MAX. FLAPS EXTENDED SPEED	100
Vle	MAX. GEAR EXTENDED SPEED	120
Vs	STALL SPEED, FLAPS 15°	68
Vso	STALL SPEED, LANDING CONFIG.	57
	NORMAL CLIMB	115-120
	BEST GLIDE: Windmilling/Stop'd	105/100