

# MOONEY 252 NORMAL CHECKLISTS

## PREFLIGHT INSPECTION

### PREFLIGHT–Cabin

- A-R-O-W Papers ..... Checked
- Magneto/Start Switch ..... Off
- Avionics / Electrical ..... Off
- Gear Switch ..... Down
- Master Switch ..... On
- Fuel Gauges ..... Check Quantity
- Flaps ..... Down
- Exterior Lights / Pitot Heat ..... Check
- Annunciator Lights ..... Test
- Electric Gyros ..... Spooling
- Master Switch ..... Off

### PREFLIGHT–Right Tailcone Area

- Tail Tiedown ..... Remove
- Instrument Static Port ..... Unobstructed
- Skin Condition ..... Check

### PREFLIGHT–Empennage

- Antennas ..... Secured
- Static Port ..... Clear
- Elevator & Rudder attach points ..... Check
- Empennage Security ..... Check (lift on rudder)
- General Skin Condition ..... Check

### PREFLIGHT–Left Tailcone Area

- Fresh Air Vent (on dorsal fin) ..... Clear
- Instrument Static Port ..... Unobstructed
- Tailcone Access Door ..... Secured
- Static System Drain Push Plunger ..... Up (Hold 3-5 Seconds)

### PREFLIGHT–Left Wing

- Skin Condition ..... Check
- Flap & Aileron ..... Check
- Wingtip & Light ..... Check
- Wing Leading Edge ..... Check
- Pitot Tube ..... Unobstructed & heating
- Stall Switch Vane ..... Unobstructed
- Fuel Tank ..... Check Quantity & Secure Cap
- Tiedown / Chock ..... Remove
- Left Gear / Brake Disc (30 psi) ..... Check
- Fuel Tank Sump Drain ..... Drain until clear
- Tank Vent ..... Unobstructed
- Pitot System Drain Push Plunger ..... Up (Hold 3-5 Seconds)

## PREFLIGHT INSPECTION CONT.

### PREFLIGHT–Front / Propeller Area

- Windshield ..... Clean
- Cowl Fasteners ..... Secured
- Propeller & Spinner ..... Check
- Alternator Belt ..... Check
- Air Filter ..... Check
- Landing Light ..... Check Lens & Bulbs
- Oil Level ..... 5–8 qts
- Oil Filler Cap ..... Secured
- Cooling Air Intakes ..... Unobstructed
- Exhaust Pipe ..... Secured
- Nose Gear / Disc (49 psi) ..... Check
- Nose Gear Door ..... Check for Loose Linkage
- Cowl Flap ..... Check
- Wheel Chock ..... Remove

### PREFLIGHT– Right Wing

- Fuel Tank Sump Drain ..... Drain until clear
- Tank Vent ..... Unobstructed
- Right Gear / Disc (30 psi) ..... Check
- Tiedown / Chock ..... Remove
- Fuel Tank ..... Check QTY & Secure Cap
- Wing Leading Edge ..... Check
- Wing Skins ..... Check
- Wingtip & Light ..... Check
- Flap & Aileron ..... Check

### PREFLIGHT– Baggage Door

- Baggage Door ..... Secured

## PASSENGER BRIEFING

- No Step Areas
- Seat & Belt Adjustments
- No Touch Controls & Instruments
- I will close and lock door
- Emergency Exit Procedure
- Vent & Heat Locations
- Intercom Operation
- Quiet During Radio Calls
- Look for Traffic

# MOONEY 252 NORMAL CHECKLISTS

## BEFORE START CHECKLIST

- Preflight & Passenger Briefing ..... Complete
- Ignition Key ..... Inserted
- Seat & Belts ..... Secure
- Circuit Breakers ..... Check
- ELT ..... Armed
- Landing Gear ..... Down
- Avionics Master Switch ..... Off
- Auto Pilot ..... Off
- Wing Flaps Switch ..... Up
- Alternate Air ..... Closed
- Boost Pump ..... Off
- Alternate Static ..... Off
- Cowl Flaps ..... Open
- Cabin Heat ..... Off
- Fuel Selector ..... Fulllest Tank
- Master Switch ..... On
- Anti-Collision Light ..... On

## STARTING ENGINE CHECKLIST

### Cold Engine Start

- Mixture ..... Rich
  - Throttle ..... Full Open
  - Alternator Field Switches ..... On
  - Annunciator Lights ..... Press to Test
  - Primer ..... On 5 seconds—Off
  - Throttle ..... 1/8" Open
- If engine is warm, DO NOT PRIME
- Propeller ..... High RPM
  - Prop Area ..... CLEAR
  - Brakes ..... Hold
  - Magneto / Starter Switch ..... Turn and Push
  - Throttle ..... Pull to Idle
  - Engine Oil Pressure ..... Check

## AFTER START CHECKLIST

- Avionics Master Switch ..... On
- NAV / Landing lights ..... As Required
- Electric Trim Switch ..... On

## TAXI CHECKLIST

- Brakes ..... Test
- Turn Coordinator, Attitude Indicator, HSI ..... Operating

## BEFORE TAKEOFF CHECKLIST

- Brakes ..... Hold
- Flight Controls ..... Check
- Flight Instruments ..... Set
- Fuel ..... Fulllest Tank
- Mixture ..... Rich
- Throttle ..... 1700 RPM
  - Magnetos (< 150 drop & 50 differential) ..... Check
  - Propeller ..... Cycle
  - Amp / Temps / Fuel / Vacuum ..... Check
  - Fuel Pressure ..... Green
  - Throttle ..... Idle
- Elevator Trim ..... Takeoff
- Flaps ..... 10°
- Autopilot ..... Check & Off
- Annunciator Lights ..... Press to Test
- Door & Window ..... Secure
- Pitot Heat ..... As Required
- Mixture ..... Rich
- Propeller ..... High RPM
- Fuel Pump ..... Off
- Speed Brakes ..... Cycle/Check Down
- Pilots Window ..... Close

### ----- CLEARED FOR TAKEOFF -----

- Departure Time ..... Record
- Instruments ..... Check
- Transponder ..... Automatic
- Landing Light ..... On
- Strobe Lights ..... On

### Normal Takeoff

Full Throttle  
 2700 RPM  
 36" MP  
 Vr-67 KIAS  
 Vy-95 KIAS

# MOONEY 252 NORMAL CHECKLISTS

## CLIMB CHECKLIST

- Initial Climb ..... 74-95 KTS
- Gear (< 107 KTS)..... Up
- Flaps (< 112 KTS)..... Up
- Power ..... 32" MP / 2500 RPM
- Mixture ..... Rich
- Amp / Temps / Fuel / Vac..... Green
- Cruise Climb ..... 95-115 KTS

## CRUISE CHECKLIST

- Amp / Temps / Fuel / Vac..... Green
- Landing Light..... Off
- Power ..... Set per AFM
- Mixture ..... Lean to peak TIT (< 1650 Deg. F)
- Cowl Flaps ..... Closed
- Fuel Tank (each 1/2 / 1 hour)..... Switch

## DESCENT CHECKLIST

- Seats & Belts..... Secure
- Fuel ..... Fullest Tank
- Power ..... Reduce 1" MP per Minute
- Cowl Flaps ..... Closed
- Amp / Temps / Fuel / Vac..... Green
- Autopilot ..... Off

## BEFORE LANDING CHECKLIST

- Downwind..... 20" MP, 105 KTS
- GUMPS check..... Complete
- Landing Light..... On
- Speed Brakes..... Stowed
- Abeam..... Gear, Flaps 10°, 100 KTS
- Short Final..... Flaps 33°, 75 KTS

## GO AROUND

- Power ..... Full Throttle
- Wing Flaps ..... Takeoff
- Landing Gear ..... Retract
- Cowl Flaps ..... Open
- Wing Flaps ..... Up

## AFTER LANDING CHECKLIST

- Pitot Heat ..... Off
- Mixture ..... Lean for taxi
- Cowl Flaps ..... Open
- Wing Flaps ..... Up
- Elevator Trim..... Takeoff

## PARKING CHECKLIST

- Turbocharger ..... 5 minute spool down
- Avionics Master..... Off
- Panel Lights ..... Off
- Mixture ..... Idle Cutoff
- Master Switch..... Off
- Magneto Switch..... Off
- Alt. Field Switches..... Off
- Overhead Air Scoop..... Closed
- Hobbs Time..... Record

## SECURING AIRCRAFT CHECKLIST

- Master Switch ..... Off
- Seat Belts..... Straightened
- Garbage ..... Removed from cabin
- Cabin Door..... Locked
- Cargo Door ..... Locked
- Aircraft Covers & Intake Covers..... Installed
- Tiedowns..... Secured

# MOONEY 252 EMERGENCY CHECKLIST

*FLY THE AIRPLANE – SILENCE THE WARNING –  
CONFIRM THE EMERGENCY*

## EMERGENCY LANDING

- Best glide speed..... 85 KIAS
- Landing Field..... Selected
- Fuel Selector..... Switch
- High Boost Fuel Pump..... On
- Mixture..... Enrich
- Magneto/Start Switch..... L, R, & Both
- Radio..... 121.50 Mayday
- Transponder..... 7700

- ELT..... On
- Fuel Selector..... Off
- Gear & Flaps..... As Required
- Short Final—
  - No Flaps..... 85 KTS
  - 33° Flaps..... 75 KTS
- Mixture..... Idle Cut-Off
- Master Switch..... Off
- Magneto Switch..... Off
- Seats & Belts..... Fastened
- Door..... Ajar

## MANUAL GEAR EXTENSION

- Airspeed..... 140 KIAS or less
  - Autopilot..... Engage
  - Landing Gear Actuator CB..... Pull
  - Gear Switch..... Down
  - Manual Gear Extension..... Latch Fwd Lever Back
  - T-Handle..... Pull (12-20 times)
- Pull handle until green gear light / floor indicator shows gear down.

## GEAR RETRACT FAILURE

- Gear Bypass Button....Depress until gear retracted
- Gear Relays Circuit Breaker..... Pull and reset
- Gear Switch..... Down

## INFLIGHT ENGINE RESTART

- Propeller..... High RPM
- Fuel Selector..... Full Tank
- Mixture..... Idle Cut-off
- Fuel Pump (if no pressure)..... On
- Throttle..... 1/4 Travel
- Magnetos..... Both
- Mixture..... Rich

Reestablish Cruise Power / RPM

- Mixture..... Lean
- If unable to restart, execute EMERGENCY LANDING CHECKLIST

## PRIMARY VACUUM FAILURE

- Standby Vacuum..... On
- Throttle..... Reduce as Required

## ENGINE FIRE

### On Ground:

- ATC..... Advise
- Mixture..... Idle Cut-Off
- Fuel Selector..... Off
- Master Switch..... Off
- Magneto/Start Switch..... Off
- Fire..... Extinguish

### In Flight :

- ATC..... Advise
- Fuel Selector Valve..... Off
- Throttle..... Closed
- Mixture..... Idle Cutoff
- Magneto/Starter Switch..... Off
- Cabin Vents & Heat..... Closed
- Cowl Flap..... Closed
- LAND AT NEAREST SUITABLE AIRPORT

## ELECTRICAL FIRE

- Master Switch..... Off
- Alternator Field Switches..... Off
- Cabin Ventilation..... Open
- Heating Controls..... Closed
- Circuit Breakers..... Check
- If electrical power required:
  - Master Switch..... On
  - Alternator Field Switches..... On
  - Essential Switches..... On one at a time

## ALTERNATOR OVERVOLTAGE

- If Warning Light is STEADY
  - Avionics Master..... Off
  - Master Switch..... Off then On
- If Warning light remains STEADY
  - Alternator Field Breaker..... Pull
  - All non-essential Electric..... Off
  - LAND AT NEAREST SUITABLE AIRPORT

## ALTERNATOR-LOW VOLTAGE

- If Warning Light is FLASHING
  - Alternator Field Breaker..... Off then On
- If Warning Light remains FLASHING
  - All non-essential Electric..... Off
  - LAND AT NEAREST SUITABLE AIRPORT

## FLIGHT INTO ICING CONDITIONS

- Pitot Heat..... On
- Propeller Deice..... On
- Alternate Static Air..... On if required
- Alternate Air..... Verify Open
- Cabin Heat / Defrost..... On
- Direction and / or Altitude..... Change