



# N252B

## In Flight Check

### VFR LANDING - DOWNWIND

Fuel Selector	FULLEST TANK
Mixture	RICH
Throttle	15" Minimum
Landing Gear	DOWN at 140 KIAS
Fuel Boost Pump	Verify OFF

### VFR LANDING - BASE

Wing Flaps	Approach Flaps (15')
Airspeed	90 KIAS
Propeller	High RPM
GUMPS	CHECK

### VFR LANDING - FINAL

Wing Flaps	FULL DOWN
GUMPS	CHECK
Airspeed over Threshold	75 KIAS
	Reduce by 5 knots for each 300 lbs below gross weight

### IFR LANDING - BEFORE FAF

Fuel Selector	FULLEST TANK
Mixture	Enrich As Required
Fuel Boost Pump	Verify OFF
Throttle	20.0" MP
VOR/ILS/ADF/GPS	SET & Identified
Radio Frequencies	SET
Marker Beacons	

### IFR LANDING - FAF INBOUND

Landing Gear	DOWN (140 KIAS)
Throttle	16" MP
Propeller	High RPM
Airspeed	100 KIAS
1000 ft. above DH/MDA	Gear Down; On GS; No Flaps

### IFR LANDING - SHORT FINAL

Wing Flaps	FULL DOWN
Mixture	RICH
GUMPS	CHECK
Airspeed	75 KIAS
	Reduce by 5 knots for each 300 lbs below gross weight



# N252BP

## Post-Flight Check

### MOONEY 252 - AIRSPEEDS

V <sub>ROTATE</sub>	67 KIAS
V <sub>X</sub>	71 KIAS
V <sub>Y</sub>	96 KIAS
Cruise Climb	32" MP 2450 RPM 115 KIAS
Descent (Gear UP)	20" MP 2200 RPM
Descent (Gear DOWN)	20" MP 2200 RPM 140 KIAS
Descent (Gear & Flaps)	20" MP 2200 RPM 112 KIAS
Final Approach Speed	75 KIAS
	Reduce by 5 knots for each 300 lbs below gross weight
Short Field Landing	69 KIAS
	Reduce by 5 knots for each 300 lbs below gross weight

### AFTER LANDING

Throttle	1000 to 1200 RPM
Shutdown Timer	SET 5 minutes
Wing Flaps	FULL RETRACT
Cowl Flap	FULL OPEN
Trim	Reset to Takeoff
Transponder	STBY
Strobe Lights	OFF
Pitot Heat	OFF
Mixture	LEAN
Radio	as required

### SHUTDOWN

Throttle	1000 RPM for 5 minutes
Avionics Master Switch	OFF
Lights	OFF
Mixture	Idle Cutoff
Magneto/Starter Switch	OFF
Alternator Field Switches	OFF
Master Switch	OFF
Tach Time	RECORD

### SECURE AIRCRAFT

Magneto/Starter	Verify OFF; Key removed
Master Switch	Verify OFF
Avionics Master Switch	Verify OFF
Electrical Switches	Verify OFF
Cabin Lights	Verify OFF
Oxygen System	Verify CLOSED
Control Lock	Seatbelt over yoke
Tie Down	SECURE
Cabin Cover	Deployed
All Plugs & Covers	ON

### TAKEOFF

Engine Oil Temperature	At Least 100°F
Power	36.0" MP and 2700 RPM
Engine Instruments	CHECK
Rotate	67 KIAS
Climb	74 KIAS then 95 KIAS
Landing Gear	UP after 50 ft. AGL
Flaps	UP after 300 ft. AGL

### CLIMB

Power	32.0" MP and 2450 RPM after 1000 ft.
Mixture	RICH (lean above 3000)
Cowl Flap	Full OPEN or as needed
Airspeed	95 KIAS to 115 KIAS (V <sub>x</sub> = 71 KIAS)
Autopilot	NAV & ENGAGE
Oxygen	If required

### CRUISE

Autopilot	Altitude Select
Throttle	30.0" MP
Propeller	2300 RPM
Mixture	50°F Rich of Peak
Cowl Flap	CLOSED (Monitor CHT)

### CRUISE DESCENT

Autopilot	Altitude Disengage
Landing Gear	UP
Throttle	Above 20.0" MP
Propeller	2200 RPM
Mixture	Peak TIT
Cowl Flap	CLOSED
CHT	Monitor 250°F Minimum

### APPROACH DESCENT

Airspeed	Decelerate to 140 KIAS
Landing Gear	DOWN and LOCKED
Throttle	Above 20.0" MP
Propeller	2200 RPM
Mixture	Peak TIT
Cowl Flap	CLOSED
CHT	Monitor 250°F Minimum
Oxygen	Valve Closed
Autopilot	Altitude Release
ATIS	Acquired
Landing Lights	ON

