

Maule N56601 Operating Checklist (June 2023)

V _{SO}	50 MPH	V _A	125 MPH
V _S	62 MPH	V _{FE}	95 MPH
V _X	75 MPH	V _{NO}	147 MPH
V _Y	90 MPH	V _{NE}	182 MPH
V _{BG}	80 MPH	Flaps settings: 0°, 20°, 40°	

Before Starting Engine

- 1) Preflight inspection – COMPLETE
- 2) Pitot cover – REMOVED
- 3) Controls – FREE
- 4) Documents – ON BOARD
- 5) Hobbs & tach – RECORDED
- 6) Passenger briefing – COMPLETE
- 7) Seats & seatbelts – ADJUSTED
- 8) Avionics & electrical equipment – OFF
- 9) Circuit breakers – CHECK IN
- 10) Doors – CLOSED & LOCKED

Starting Engine

- 1) Prime (3x for cold engine, 0-2 for hot-warm engine)
- 2) Mixture – RICH
- 3) Carb heat – COLD
- 4) Throttle – Pump once, then OPEN ¼ inch
- 5) Anticollision lights – ON
- 6) Master switch – ON
- 7) Brakes – TEST & HOLD
- 8) Yoke – HOLD AFT
- 9) Propeller area – “CLEAR” and visually clear area
- 10) Ignition – START
- 11) Throttle – SET 900 to 1000 RPM

After Start

- 1) Oil pressure – CHECK GREEN within 30 seconds
- 2) Ammeter – CHECK slightly positive
- 3) Mixture – LEAN for taxi
- 4) Fuel – CHECK QTY & ON FULLEST TANK
- 5) Avionics – ON
- 6) GPS – database current and testing complete
- 7) Transponder – ALT & 1200
- 8) ATIS/AWOS/ASOS – CHECK
- 9) Flight instruments – CHECK & SET
- 10) Radio – SET & contact ground for taxi

AeroDynamic Aviation®

Taxi

- 1) Brief taxi diagram & hot spots
- 2) Brakes – CHECK (gently!)
- 3) Flight instruments – CHECK

Run-up

- 1) Tailwheel straight, brakes held tight
 - 2) Flight Controls – FREE & CORRECT
 - 3) Trim – SET FOR TAKEOFF
- ~ Once CHTs are above 250°F and oil temp above 100°F:**
- 4) Doors & windows – CLOSED & LATCHED
 - 5) Primer – IN & LOCKED
 - 6) Mixture – RICH
 - 7) Throttle – 1800 RPM
 - 8) Ignition – CHECK (max. 175 RPM drop & 50 RPM differential)
 - 9) Carb heat – CHECK
 - 10) Propeller – CYCLE
 - 11) Engine instruments – CHECK
 - 12) Ammeter – CHECK
 - 13) Throttle – IDLE CHECK, then 900 to 1000 RPM
 - 14) GPS/NAV – ENTER FPL, SET NAV & RADIO
 - 15) Transponder – VERIFY ALT & SQUAWK
 - 16) Takeoff briefing – COMPLETE

Before Take-off

- 1) Doors & windows – CLOSED & LATCHED
- 2) Trim – SET FOR TAKEOFF
- 3) Flaps – 0° for normal/crosswind takeoff (20° for short/soft-field)
- 4) Mixture – RICH (or set for DA)
- 5) Prop – FULL FWD
- 6) Carb heat – COLD
- 7) Lights – AS NEEDED
- 8) Radio – SET, contact tower

Normal Takeoff & Climb

- 1) Climb – V_X 75 MPH or V_Y 90 MPH,
~ Above 1000' AGL & clear of obstacles:
- 1) Airspeed – 90 to 100 MPH
- 2) Throttle – 25” MP, Prop – 2500 RPM
- 3) Engine instruments – CHECK & MONITOR
- 4) Mixture – RICH until 3,000 MSL, then lean cautiously. Keep EGTs below 1350°F and CHTs below 375°F

Cruise

- 1) Throttle – 21-23" MP (< 75% power)
- 2) Prop – 2300 RPM (or as desired for cruise power setting)
- 3) Engine instruments – CHECK
- 4) Mixture – LEAN for altitude. Keep EGTs below 1400°F and CHTs below 375°F
- 5) Trim – SET for cruise airspeed
- 6) Fuel selector – FULLEST TANK (switch every 30 mins)
- 7) Flight instruments – CHECK & SET

Descent

- 1) ATIS/AWOS/ASOS – CHECK
- 2) Flight instruments – CHECK & SET
- 3) Radios – SET, report 10 miles out
- 4) Approach/pattern entry briefing – COMPLETE
- 5) Carb heat – ON if required
- 6) Throttle – REDUCE 1-2" MP/min during descent
- 7) Prop – Avoid 2000 to 2250 RPM caution (yellow) range
- 8) Mixture – ENRICHEN throughout descent
- 9) Seats & seatbelts – ADJUSTED

Before Landing

- 1) Lights – AS NEEDED
- 2) Fuel – CHECK QTY, ON FULLEST TANK
~ *Abeam the numbers or 3-mile final*
- 3) Throttle – SET approx. 1800 RPM
- 4) Prop – FULL FWD once below 12" MP
- 5) Mixture – RICH
- 6) Carb Heat – ON if needed
- 7) Airspeed – 80 MPH with flaps 0°
- 8) Airspeed – 70 to 75 MPH with flaps 20°
- 9) Airspeed – 70 MPH with flaps 40° (65 MPH for short-field)

After Landing (stop once clear of runway)

- 1) Radio – Switch to GROUND when advised
- 2) Flaps – UP
- 3) Mixture – LEAN for taxi
- 4) Carb Heat – COLD
- 5) Lights – AS NEEDED
- 6) Trim – SET FOR TAKEOFF
- 7) Transponder – ALT & 1200
- 8) Radios – CONTACT GROUND

Shutdown

- 1) Avionics and electrical switches – OFF
- 2) Throttle – 1000 RPM
- 3) Mixture – IDLE CUTOFF
- 4) Ignition – OFF, key on panel knob
- 5) Master switch – OFF
- 6) Pitot cover & sunshade – INSTALL
- 7) Hobbs & tach – RECORD
- 8) Trash – REMOVE & TIDY UP
- 9) Tiedowns & chocks – INSTALL

* Flaps 0° or 20° is recommended in stronger crosswinds.

* Max demonstrated crosswind is 14 MPH, but this is not a limitation.

Engine Failure

- 1) **A**irspeed – V_{BG} 83 MPH
- 2) **B**est place to land – SELECT
Checklist:
 - 3) Mixture – RICH
 - 4) Fuel pump – ON
 - 5) Fuel selector – FULLEST TANK
 - 6) Primer – IN & LOCKED
 - 7) Carb heat – HOT
 - 8) Starter – engage only if propeller stops
- ~ If engine does not restart
- 9) Throttle – FULL OPEN
- 10) Mixture – FULL LEAN
- ~ If engine still does not restart, complete Forced Landing checklist

Forced Landing

- 1) Mixture – IDLE CUTOFF
- 2) Fuel selector – OFF
- 3) Ignition – OFF
- 4) Flaps – AS REQ. (recommend 70 MPH with flaps 40°)
- 5) Radio call – "MAYDAY, MAYDAY"
- 6) Transponder – Squawk 7700
- 7) Master switch – OFF
- 8) Doors – UNLATCHED PRIOR TO TOUCHDOWN
- 9) Touchdown – SLIGHTLY TAIL LOW, brake as needed