



<p><b>INITIAL</b></p> <p>Weather &amp; Den. Alt. Weight &amp; Balance Performance Req. Flight Plan - File Papers - A.R.O.W. Fuel - Both Control Lock Flaps - Extend Master - On Pitot Heat - Test Stall Indicator - Test Lights - Int. / Ext. Fuel Gauges - True Master - Off</p> <p><b>EXTERIOR SUMMARY</b> <i>After Thorough Geographical Check</i></p> <p>Fuel Quantity Fuel Quality Caps/Drains/Vents Engine / Oil / Belt Prop / Air Intake Exhaust System Surfaces &amp; Controls Pitot &amp; Static Ports Gear / Tires / Brakes Antennas Rudder Gust Lock Ties/Chocks/Towbar Baggage Door Floats-Pump As Req. Final Walk Around</p> <p><b>INTERIOR</b></p> <p>Passenger Brief Life Preservers - On Hobbs / Tach Time Circuit Breakers</p>	<p><b>START</b></p> <p>Seat Track/Back-Lock Flaps - Up Avionics - Off Mixture - Full Rich Throttle - Close Prop - Clear Master - On Beacon - On Prime - 3X Mags - Start Throttle - Advance Oil Pressure Lights - As Req. Mixture - As Req. Warm Up - 900-1k</p> <p><b>PRE-TAXI / TAXI</b></p> <p>Seat Belts / Harness Heat / Vent / Defrost Avionics - On ASOS Altimeter XPDR - Alt + Sqwk Radio - Test Landing Light - On Brakes - Test Attitude Indic. - Test Turn Coord. - Test H.I. To Compass-Test Water Rudders - Up <i>Down For Water 1000 RPM Max</i></p>	<p><b>RUN-UP</b></p> <p>Brakes Fuel - Both Trim - Takeoff Flight Controls Instruments 1700 RPM Mixture - Best Power Carb Heat - Test Mags-Test <i>R-L-Both</i> Suction Ammeter Oil Pressure Oil Temperature Idle - Check Closed Throttle Friction</p> <p><b>PRE-TAKEOFF</b></p> <p>Flaps - 0°-10° Pitot Heat - As Req. XPDR - Alt + Sqwk Water Rudders - Up Doors / Windows Landing Light - On Strobes - On Time - Note Brakes - Release</p> <p><i>ABORT PLAN - READY!</i></p>	<p><b>TAKEOFF/LAND</b></p> <p>Full Throttle Oil Pressure Vy - 65 (75) Positive Rate Climb Gear - Up Flaps - Up</p> <p><b>TAKEOFF/WATER</b></p> <p>Gear - Up <i>4 Blue Lts/CONFIRM</i> Water Rudders - Up Trim - Takeoff Flaps - 10° Rotate - 52 (60) Climb - 65 (75) If Obstacle - 61 (70) Flaps - Up <i>After Clear</i></p> <p><b>CLIMB</b></p> <p>65-74 (75-85) Mixture - As Req. Instruments Landing Light - Off Flight Plan - Open</p> <p><b>CRUISE</b></p> <p>Throttle Instruments</p>	<p><b>DESCENT</b></p> <p>Mixture - Richen Fuel - Both or On ASOS Altimeter Instruments</p> <p><b>LAND or WATER</b></p> <p><i>G.U.M.P.F.S.</i></p> <p><b>PRE-LANDING ON LAND</b></p> <p>Brakes - Pedal Test Gear - Down <i>4 Green Lts/CONFIRM</i> Water Rudders - Up Mixture - Best Power Landing Light - On Flaps - 30° <i>Or As Req</i></p> <p><b>LANDING ON LAND</b></p> <p>61-70 (70-80) <i>w/o Flaps</i> 52-61 (60-70) <i>w/ Flaps</i> Touchdown Stick - Full Aft Water Rudders - Up Taxi - &lt; 800 RPM</p> <p><b>PRE-LANDING ON WATER</b></p> <p>Mixture - Best Power Water Rudders - Up Landing Light - On Flaps - 30° <i>Or As Req</i></p>	<p><b>LANDING ON WATER</b></p> <p>Gear - Up <i>4 Blue Lts/CONFIRM</i> 61-70 (70-80) <i>w/o Flaps</i> 52-61 (60-70) <i>w/ Flaps</i> Touchdown Stick - Full Aft Taxi - &lt; 800 RPM Landing Light - On Water Rudders - Down</p> <p><b>GO-AROUND</b></p> <p>Power - Full Flaps - 20° 61 (70) Flaps - Retract</p> <p><b>AFTER LANDING</b></p> <p>Flaps - Up Strobes - On Landing Light - On Pitot Heat - Off Mixture - Lean As Req. Trim - Takeoff XPDR - Alt + Sqwk</p> <p><b>SECURING</b></p> <p>ELT - Verify Silent Avionics - Off Mixture - Full Lean Mags - Off Master - Off Fuel - L/R or Off Lights - Off Hobbs / Tach Time Control Lock Chocks Tie Downs Pitot Cover Engine Plugs Baggage Door Cabin Doors</p>
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X Wind • Max Demo'd - 15 (17)	Vs <sub>0</sub> • Stall With Flaps - 35 (40)	Best Glide (Full Gross) - 68 (78)	Vno • Max Struct. Cruise - 128 (147)
Vr • Rotation - 52 (60)	Vs • Stall w/o Flaps - 43 (50)	Va • Max Abrupt Ctrl (1750 lbs) - 85 (98)	Vfe • Flaps Extended - 85 (98)
Vx • Best Angle Climb - 62 (71)	Best Glide (1750 lbs) - 56 (64)	Va • Max Abrupt Ctrl (2150 lbs) - 95 (109)	Vne • Never Exceed - 160 (184)
Vy • Best Rate Climb - 65 (75)	Best Glide (2150 lbs) - 62 (71)	Va • Max Abrupt (Full Gross) - 105 (121)	

	KNOTS (MPH)	FLAPS °	- NOTES -
<b>DEPARTURE</b>			All Speeds CAS Except Cruise.
Best Angle Climb	62 (71)	0	<b>Short Field</b> OR <b>Soft Field</b> : 20° Flaps -56 (64) Until Clear.
Best Rate Climb	65 (75)	0	
<b>CRUISE</b> TAS-8,000'			2300 RPM
Economy	83 (95)	0	2400 RPM
Normal	87 (100)	0	
<b>ARRIVAL</b>			1700 RPM (Initially)
Approach	75 (86)	10-20	Idle-1200 RPM
Short Final *	65 (75)	30	

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Specs Are Approximate Because Of Environment & Plane Model / Year Variables. Specs Are In: LBS, CAS, Sea Level, Standard Day, Normal Category, Max. Gross Wt., No Wind, "Best Power", Wheel Pants, New Engine. ( ) = MPH.

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(IF UNABLE TO ABORT TAKEOFF)

## POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

### MAINTAIN AIRCRAFT CONTROL

BEST GLIDE – 70 KIAS (80 MPH) *Full Gross Weight*  
FUEL SELECTOR – OFF  
MIXTURE – FULL LEAN / IDLE CUTOFF  
FLAPS – DOWN  
MASTER & MAGS – OFF

**UNLATCH DOORS  
PROTECT BODY**

## POWER LOSS IN FLIGHT

BEST GLIDE – 70 KIAS (80 MPH) *Full Gross Weight*  
NOTE WIND DIRECTION & VELOCITY  
PICK LANDING SITE  
MIXTURE – FULL RICH  
FUEL SELECTOR – CHECK / SWITCH / BOTH *Note Gauges*  
AUX FUEL PUMP – TRY START POSITION FOR RESTART  
MAGNETOS – CHECK ALL  
MASTER – ON

## EMERGENCY LANDING ON WATER w/o ENGINE POWER

AIRSPEED – 70 KIAS (Flaps UP), 65 KIAS (Flaps DOWN)  
LANDING GEAR – UP *3-Blue Lights*  
MIXTURE – FULL LEAN / IDLE CUTOFF  
FUEL VALVE – OFF  
IGNITION SWITCH – OFF  
WATER RUDDERS – UP  
WING FLAPS – AS REQ. *30° Recommended*  
MASTER – OFF  
DOORS – UNLATCH PRIOR TO APPROACH  
TOUCHDOWN – SLIGHTLY TAIL LOW  
CONTROL WHEEL – FULL AFT *As Amphib Decelerates*

## EMERGENCY LANDING ON LAND w/o ENGINE POWER

AIRSPEED – 70 KIAS (Flaps UP), 65 KIAS (Flaps DOWN)  
SQUAWK 7700  
DECLARE EMERGENCY *TWR, APP, Unicom, 121.5*  
MIXTURE – FULL LEAN / IDLE CUTOFF  
FUEL VALVE – OFF  
SEATBELTS / HARNESS  
GEAR – DOWN *If Landing On Runway*  
GEAR – UP *If Landing On Rough Or Soft Terrain*  
WING FLAPS – AS REQ. *40° Recommended*  
MASTER & IGNITION – OFF  
**UNLATCH DOOR & PROTECT BODY**

## ELECTRICAL FIRE IN FLIGHT

ALL ELECTRICAL DEVICES + MASTER – OFF *Mags – On*  
CLOSE VENTS, CABIN HEAT, & AIR *Oxygen?*  
IF FIRE OUT, MASTER ON ONLY IF CRITICAL *Vents – Open*  
THEN ONE ESSENTIAL ELECTRICAL DEVICE AT A TIME  
RESET CIRCUIT BREAKER(S) ONLY IF CRITICAL

## ENGINE FIRE IN FLIGHT

MIXTURE – FULL LEAN / IDLE CUTOFF  
FUEL SELECTOR – OFF  
MASTER – OFF *Mags – On*  
CABIN HEAT & AIR – OFF *Except Overhead Vents*  
INCREASE AIRSPEED TO EXTINGUISH – LAND ASAP

## ENGINE FIRE DURING START

CONTINUE CRANKING ENGINE  
IF START – RUN A FEW SECONDS - SHUTDOWN - INSPECT  
IF NO START – MIXTURE - IDLE CUTOFF & FUEL SELECTOR - OFF  
THROTTLE – FULL OPEN  
CONTINUE CRANKING ENGINE A FEW SECONDS  
MASTER & MAGS – OFF  
EVACUATE / FIRE EXTINGUISHER

## ICING

PITOT HEAT – ON  
CABIN HEAT & DEFROST – MAXIMUM  
STRONGLY CONSIDER 180° TURN  
ATTAIN HIGHER OR LOWER ALTITUDE  
INCREASE ENGINE SPEED  
FLAPS – NOT RECOMMENDED FOR LANDING  
LAND FASTER AS NEEDED

## GEAR FAILS TO GO UP OR DOWN

BATT - ON, RECHECK GEAR SWITCH IN DESIRED POSITION, CK GEAR CB IN, GEAR LTS-3 BLUE for UP & 3 GREEN for DOWN, CK VISUALLY.  
**If Still Not In Desired Position:** RECYCLE GEAR SWITCH, GEAR MOTOR - CHECK RED LIGHT ON, REDUCE AIRSPEED.  
**If Gear Motor Inop or Gear Still Not In Desired Position:** PULL GEAR CB, PUT GEAR SWITCH IN DESIRED POSITION, SELECT DESIRED POSITION ON EMERG. VALVE, PUMP EMERG. HAND PUMP UNTIL RESISTANCE HEAVY (APPROX 150 CYCLES) CK LIGHTS AND

UNICOM: 122.7 122.725 122.8 122.975 123.0 123.05  
MULTICOM: 122.9 (CTAF) 122.75 (Air To Air)  
FSS: 122.2  
GROUND: 121.3 121.7 121.9 123.5 123.9  
**EMERGENCY: 121.5**

TOWER SIGNALS	ON GROUND	IN FLIGHT
Steady Green	Cleared For Takeoff	Cleared To Land
Flashing Green	Cleared To Taxi	Return For Landing
Steady Red	Stop	Yield & Continue Circling
Flashing Red	Taxi Clear of Landing Area	Airport Unsafe - Do Not Land
Flashing White	Return To Starting Point	N/A
Alternating Red & Green	Use Extreme Caution	Use Extreme Caution

### Cessna 172 M 180 HP Amphibian *Lycoming: O-360, 180 HP*

Empty Weight: 1885.26 LBS *(Specific Plane Weight)*  
Max. Useful Load: 664.74 LBS *(Including Fuel @ 6 lbs/gal)*  
Max. Baggage Area: 120.00 LBS *(Included In Useful Load)*  
Max. T.O. Weight: 2550.00 LBS

Fuel Type: 100 LL (Blue) / 100 (Green) / 80 (Red)  
Usable Fuel: 38 Gallons  
Oil Capacity: 8 Quarts *(Minimum 6)*  
Electrical: 12-14 VOLT / 60 AMP  
Tire Pressure: Nose - 45 PSI / Main - 38 PSI