INITIAL

Weather & Den. Alt. Weight & Balance Performance Req. Flight Plan - File Papers - A.R.O.W. Fuel - Both Control Lock Gear Lever - Down Master - On Gear Lights - Green Flaps - Extend Pitot Heat - Test Stall Indicator - Test Lights - Int. / Ext. Fuel Gauges – True Master - Off

EXTERIOR SUMMARY

Fuel Quantity Fuel Quality Caps/Drains/Vents Engine / Oil / Belt Prop / Air Intake **Exhaust System** Surfaces & Controls Pitot & Static Ports Gear / Tires / Brakes Antennas Ties/Chocks/Towbar Baggage Door Final Walk Around

INTERIOR

Passenger Brief Hobbs / Tach Time Circuit Breakers Alternate Static **Electric Trim** Brakes - Pedal Test

START

Seat Track/Back-Lock Cowl Flaps - Open Avionics - Off Autopilot - Off Carb Heat - Off Mixture - Full Rich Prop - High RPM Throttle – 1-2 Pumps (Fuel Pump On If Hot) Brakes

Prop – Clear

Master - On

Beacon - On

Mags - Start

Oil Pressure

Fuel Pump - Off Lights - As Reg. Mixture - As Reg.

PRE-TAXI / TAXI

Seat Belts / Harness Flaps - Up Heat / Vent / Defrost Avionics - On / Set ATIS / AWOS Altimeter - Set XPDR - Alt + Sawk ADS-B-On Radio - Test Taxi Light - As Req. Brakes - Test Attitude Indic.-Test Turn Coord. - Test HSI/Compass-Test

RUN-UP

Brakes - Set Fuel - Both Trim - Takeoff Flight Controls Instruments Mixture - Best Power Fuel Pump - On Pressure Increase Fuel Pump - Off

1800 RPM Mags (R&L) - Test Prop - Cycle Carb Heat - Test Vacuum Amps / Volts. Oil Pressure Oil Temp Idle - Check Closed Throttle Friction

PRE-TAKEOFF

Flaps - 0°-10° Prop - High RPM Mixture - Best Power Carb Heat-Off Or As Rea. Pitot Heat - As Req. **HSI To Compass** XPDR - Alt + SqwkDoors / Windows Landing Light - On Strobes - As Req. Time - Note Brakes - Release Abort Plan - Ready!

TAKEOFF

Full Throttle 2700 RPM (Max) Manifold Pressure Oil Pressure Rotate * 55 (63) Vy - 84 (97) Gear - Up Flaps - Up

CLIMB

85-95 (98-109) Throttle - 25" MP Prop - 2500 RPM Mixture - As Reg. Instruments Cowl Flaps - As Req. Taxi/Land Light - Off Flight Plan - Open

CRUISE

Throttle Prop Mixture Cowl Flaps Instruments **HSI To Compass**

DESCENT

Throttle - MP As Req. Mixture - Richen Fuel - Both Carb Heat-As Req. Cowl Flaps - Close ATIS / AWOS Altimeter - Set Instruments **HSI To Compass**

PRE-LANDING

Landing Light - On Autopilot - Off Seat Belts / Harness Mixture - Best Power Carb Heat - On Fuel - Both Gear - Down Flaps - As Req.

LANDING

Gear - Down Flaps-30° Or As Req Prop - High RPM Speed * 65 (75) G. U. M. P. F. S.

GO AROUND Power - Full Carb Heat - Off Flaps - Approach Positive Rate Climb Gear-Up (As Req.) Flaps - Up Cowl Flaps - Open

AFTER LANDING

Flaps - Up Carb Heat - Off Cowl Flaps - Open Strobes - Off Landing Light - Off Taxi Light - As Req. Pitot Heat - Off Mixture - As Reg. Trim - Takeoff XPDR - Alt + Sqwk

SECURING

ELT - Verify Silent Avionics - Off Mixture - Full Lean Mags - Off Master - Off Fuel - Left or Right Lights - Off Cowl Flaps - Close Hobbs / Tach Time Control Lock Chocks Tie Downs Pitot Cover Baggage Door Cabin Doors

Close Flight Plan

Adjust Speed As Needed For Conditions

XWind • Max Demo'd -15 (17)	Vs ₀ • Stall with flaps – 42	(48)	Va • Max Abrupt Ctrl (2300 lbs) -	99 (114)	Vfe • 10° Flaps —	130 (150
Vr • Rotation Speed - 55 (63)	Vs • Stall w/o flaps - 50	(58)	Va • Max Abrupt (Full Gross) - 1	106 (122)	Vfe • Full Flaps —	100 (115
Vx • Best Angle Climb – 67 (77)	Best Glide (2300 lbs) - 68	(78)	Vno • Max Structural Cruise – 1	145 (167)	VIo • Max Gear Operate –	140 (161
Vy • Best Rate Climb – 84 (97)	Best Glide (Full Gross) – 73	(84)	Vne • Never Exceed —	164 (189)	Vle • Max Gear Extended -	-164 (189

	KNOTS (MPH)	FLAPS °	– NOTES –
DEPARTURE Rotation * Best Angle Climb Best Rate Climb	55 (63) 67 (77) 84 (97)	0 0 0	Normal & Short Field: 0° Flaps. 63 (72) Until Clear Soft/Rough Field or Minimum <u>Ground</u> Run: 10° Flaps.
CRUISE (TAS -6,000') Economy Normal Maximum	117 (135) 128 (147) 137 (158)	0 0 0	21" MP – 2100 RPM – 7.7 GPH – 56% 22" MP – 2300 RPM – 8.8 GPH – 65% 24" MP – 2400 RPM – 10.2 GPH – 77%
ARRIVAL Approach Short Final *	75 (86) 65 (75)	10-20 30	17" MP <i>(Initially)</i> Prop – High RPM

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Specs Are In: LBS, KIAS, Sea Level, Standard Day, Normal Category, Max.Gross Wt., No Wind, "Best Economy", New Engine. () = MPH.

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VERTICAL SCALE = NAUTICAL MILES PER INCH: WAC = 14 SEC = 7 TAC = 3.5 NOS = 12 JEPP = 15 ELA = 12

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(IF UNABLE TO ABORT TAKEOFF)

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 73 KIAS (84 MPH)

(Full Gross Weight)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

GEAR - AS REQUIRED

MASTER & MAGS - OFF

(Unlatch Doors)

(Try Re-Priming)

(Also Supplies Alternate Air)

POWER LOSS IN FLIGHT

BEST GLIDE - 73 KIAS (84 MPH) (Full Gross Weight)

NOTE WIND DIRECTION & VELOCITY

PICK LANDING SITE

MIXTURE - FULL RICH

CARB HEAT - ON

FUEL SELECTOR - CHECK / SWITCH / BOTH (Note Gauges)

FUEL PRIMER - LOCKED

MAGNETOS - CHECK ALL

MASTER - ON

IF NO RESTART & TIME PERMITS

MAINTAIN BEST GLIDE

PROP - LOW RPM

(Full Aft)

SOUAWK 7700

DECLARE EMERGENCY (TWR, APP, Unicom, 121.5)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

SEATBELTS / HARNESS

FLAPS - AS NEEDED (Full Flaps When Field Assured)

GEAR DOWN (Up If Very Rough or Soft Terrain)

MASTER & MAGS – OFF

UNLATCH DOORS

PROTECT BODY

ELECTRICAL FIRE IN FLIGHT

ALL ELECTRICAL DEVICES + MASTER OFF (Mags On) CLOSE VENTS, CABIN HEAT, & AIR

IF FIRE OUT - MASTER ON ONLY IF CRITICAL (Vents - Open)

THEN ONE ESSENTIAL ELECRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKER ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

MASTER - OFF

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 - IDLE MIXTURE CUTOFF & FUEL SELECTOR OFF

THROTTLE FULL OPEN - CRANK ENGINE FEW SECONDS MASTER & MAGS - OFF

EVACUATE / FIRE EXTINGUISHER

ICING

PITOT HEAT - ON CARB HEAT - ON

CABIN HEAT & DEFROST - MAXIMUM

STRONGLY CONSIDER 180° TURN

ATTAIN HIGHER OR LOWER ALTITUDE **INCREASE ENGINE & PROP SPEED**

FLAPS - NOT RECOMMENDED FOR LANDING

LAND FASTER AS NEEDED

MANUAL GEAR EXTENSION

LANDING GEAR LEVER - DOWN

LANDING GEAR & GEAR PUMP CIRCUIT BREAKERS - IN

EMERGENCY HAND PUMP - EXTEND & PUMP APP. 35 CYCLES STOP CYCLES WHEN BECOMES HEAVY

GEAR DOWN LIGHT - ON

PUMP HANDLE - STOW

OTHER

AMMETER w/EXCESS RATE OF CHARGE: Alternator - Off, Pull C.B. / Nonessential Electric - Off / Terminate Flight A.S.A.P.

LOW VOLTAGE: Avionics Power Switch - Off / Alt. C.B. - In

/ Master - Off, then, Master - On / Ck. Volt Lt. Off / Avionics - On If Illuminates Again: Alt. & Electric - Off / Terminate Flight A.S.A.P.

RADIO OUT: **Check Circuit Breakers & VOLUME** Recycle Alternator Switch

If IFR & Still Out, Set XPDR To 7600. (Suggested For VFR If In B, C, D Airspace.)

122.7 - 122.8 - 122.95 - 123.0 - 123.05 122.9 (CTAF), 122.75, 122.85 (Air To Air) UNICOM: MULTICOM: FLIGHT WATCH: 122.0

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	

Every Plane Has A Different Empty Weight And Useful Load Cessna 172 RG (Lycoming: O-360-F1A6, 180 HP)

* Empty Weight: LBS (Specific Plane Weight)

* Max. Useful Load: LBS (Including Fuel @ 6 lbs/gal)

Max. Baggage Area: 200 LBS (Included In Useful Load) Max. T.O. Weight: 2650 LBS

Fuel Type: 100 LL (Blue) / 100 (Green)

Usable Fuel: 62 Gallons

Oil Capacity: 8 Quarts (Minimum 5)

Electrical: 24-28 VOLT / 60 AMP Tire Pressure: Nose - 40-50 PSI / Main - 60-68 PSI

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