INITIAL

Weather & Den. Alt. Weight & Balance Performance Reg. Flight Plan - File Papers - A.R.O.W. Fuel - Both Control Lock Master - On Flaps - Extend Pitot Heat - Test Lights - Int. / Ext. Fuel Gauges – True

EXTERIOR SUMMARY

Master - Off

Fuel Quantity Fuel Quality Caps/Drains/Vents Engine / Oil / Belt Prop / Air Intake Exhaust System Stall Indicator - Test 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 Brakes - Pedal Test

START

Seat Track/Back-Lock Avionics - Off Autopilot - Off Carb Heat - Off Mixture - Full Rich Throttle - Slight Prime Brakes - Set Prop - Clear Master - On

Beacon - On

Mags - Start

Oil Pressure

Lights - As Req.

Mixture - As Rea.

RUN-UP

Brakes - Set Fuel - Both Trim - Takeoff Flight Controls Instruments Mixture - Best Power Primer - In & Lock

1700 RPM

Mags (R&L) – Test Carb Heat - Test Vacuum Amps / Volts Oil Pressure Oil Temperature Idle - Check Closed Throttle Friction

PRE-TAXI / TAXI

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

TAKEOFF

Full Throttle 2280 RPM (Min) Oil Pressure Rotate * 55 (63) Vy - 73 (84) Flaps - Up

CLIMB

70-80 (81-92) Power Mixture Instruments Taxi / Land Light - Off Flight Plan - Open

CRUISE

Flaps - 0°-10° Power Mixture - Best Power Mixture Carb Heat-Off Or As Reg. Instruments **HSI To Compass** XPDR - Alt + Sawk Doors / Windows

PRE-TAKEOFF

Landing Light - On

Strobes - As Req.

Brakes - Release

Abort Plan - Ready!

Time - Note

HSI To Compass

DESCENT

Mixture - Richen Fuel - Both Carb Heat-As Reg. ATIS / AWOS Altimeter - Set Instruments **HSI To Compass**

PRE-LANDING

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

LANDING

Flaps -40° Or As Req. Speed * **60** (69) G. U. M. P. F. S.

AFTER LANDING

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

SECURING

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

Close Flight Plan

GO AROUND

Power - Full Carb Heat - Off Positive Rate Climb Flaps - Retract Slowly

Adjust Speed As Needed For Conditions

85 (98)

X Wind • Max Demo'd -15 (17)	Vso.
Vr • Rotation Speed - 55 (63)	Vso.
Vy . Rost Angle Climb - 59 (68)	Vsos

VS0 * Stall W/flaps(77-79)-41	(41)
Vs0 • Stall w/flaps (1980) - 33	(38)
Vs • Stall w/o flaps (77-79)-47	(54)

Best Glide (2000 lbs) -Best Glide (Full Gross) - 61 (70) 65 (75) Vno • Max Struct. Cruise-127 (146) Vne • Never Exceed - 158 (182)

Vy • Best Rate Climb - 73 (84)

Vs • Stall w/o flaps (1980) - 44 (51)

Va • Max Abrupt Ctrl (2000 lbs) - 90 (104) Va • Max Abrupt (Full Gross) -

97 (112)

Vfe • 10° Flaps(79-80) - 110 (127) Vfe • Full Flaps -

	KNOTS (MPH)	FLAPS °	- NOTES -
DEPARTURE Rotation * Best Angle Climb Best Rate Climb	55 (63) 59 (68) 73 (84)	0 0 0	172n V-Speeds Vary 1 or 2 Knots Depending On Year. We Use The Most Conservative Figure. '77-'79: Short w/Obstacle: 0° Flaps – 59 (68) 1980: Short Field: 10° Flaps – 53 (61) '77-'80: Soft Field: 10° Flaps – 55 (63)
CRUISE (TAS -5,000') Economy Normal Maximum	99 (114) 107 (123) 114 (131)	0 0 0	2300 RPM – 6.3 GPH – 55% 2450 RPM – 7.3 GPH – 65% 2575 RPM – 8.4 GPH – 75%
ARRIVAL Approach Short Final *	70 (81) 60 (69)	10-20 30-40	1700 RPM (Initially) Idle - 1200 RPM

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Specs Are Approximate Because Of Environment & Plane Model / Year Variables. Specs Are In: LBS, KIAS, Sea Level, Standard Day, Normal Category, Max.Gross Wt., No Wind, "Best Power", Wheel Pants, 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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POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 65 KIAS (75 MPH) (Full Gross Weight)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

MASTER & MAGS - OFF

(Unlatch Doors)

(Try Re-Priming)

(Full Flaps When Field Assured)

POWER LOSS IN FLIGHT

BEST GLIDE - 65 KIAS (75 MPH) (Full Gross Weight)

CARB HEAT - ON (Also Supplies Alternate Air)

NOTE WIND DIRECTION & VELOCITY

PICK LANDING SITE

MIXTURE - FULL RICH

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

FUEL PRIMER - LOCKED

MAGNETOS - CHECK ALL

MASTER - ON

IF NO RESTART & TIME PERMITS

MAINTAIN BEST GLIDE

SQUAWK 7700

DECLARE EMERGENCY (TWR, APP, Unicom, 121.5)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

SEATBELTS / HARNESS

FLAPS - AS NEEDED

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 ELECTRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKERS ONLY IF CRITICAL

ENGINE FIRE IN FLIGHT

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

MASTER SWITCH - 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 - 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

CARB 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

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 UNICOM:

MULTICOM: 122.9 (CTAF), 122.75, 122.85 (Air To Air) 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 172n (Lycoming O-320-H2AD, 160 HP)
7	

* Empty Weight: LBS (Specific Plane Weight) * Max. Useful Load:

LBS (Including Fuel @ 6 lbs/gal) Max. Baggage Area: 120 LBS (Included In Useful Load)

Max. T.O. Weight: 2300 LBS

Fuel Type:

Electrical:

100 LL (Blue) / 100 (Green)

Usable Fuel:

40 Gallons (50 L.R Tanks)

Oil Capacity:

6 Quarts (Minimum 4) 24-28 VOLT / 60 AMP

Tire Pressure: Nose - 31 PSI / Main - 29 PSI

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