INITIAL

Weather & Den. Alt. Weight & Balance Performance Req. 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 Master - Off

EXTERIOR SUMMARY

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 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 Beacon - On Mixture - Full Rich Throttle - Slight Prime Brakes Prop - Clear Master - On Mags - Start Oil Pressure Lights - As Req.

PRE- TAXI / TAXI

Mixture - As Req.

Seat Belts / Harness Flaps - Up Heat / Vent / Defrost Avionics - On / Set XPDR - STBY ATIS / AWOS Altimeter - Set Radio - Test Taxi Light - As Req. Brakes - Test Attitude Indic.-Test Turn Coord. - Test H.I./Compass-Test

X Wind • Max Demo'd -15 (17) Vso • Stall w/flaps (77-79) -41 (47)

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-TAKEOFF

Flaps - 00-100 Mixture - Best Power Carb Heat-Off Or As Reg. H.I. To Compass Doors / Windows XPDR - Alt + Sawk Landing Light - On Strobes - As Reg. Time - Note Brakes - Release Abort Plan - Ready!

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

Power Mixture Instruments H.I. To Compass

DESCENT

Mixture - Richen Fuel - Both Carb Heat-As Req. ATIS / AWOS Altimeter - Set Instruments H.I. 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 Reg. Speed * 60 (69)

G. U. M. P. F. S.

GO AROUND

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

61 (70)

AFTER LANDING

Flaps - Up Carb Heat - Off Strobes - Off Landing Light - Off Taxi Light - As Req. Pitot Heat - Off Mixture - As Req. Trim - Takeoff XPDR - STBY

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

Adjust Speed As Needed For Conditions

_							
	Vy • Best Rate Climb – 7	73 (84)	Vs • Stall w/o flap	os (1980) - 44	(51)	Va • Max A	brupt (Full Gros
	Vx • Best Angle Climb - 5						brupt Ctrl (2000
	Vr • Rotation Speed — 5						The second secon
							(Full Gross) -

Best Glide (2000 lbs) -

65 (75) 0 lbs) - 90 (104) 97 (112) Vno • Max Struct. Cruise- 127 (146) Vne • Never Exceed - 158 (182) Vfe • 10° Flaps(79-80) - 110 (127) Vfe • Full Flaps -85 (98)

	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) '77-'79: Short wio Obstacle: 0° Flaps – 55 (63) 1980: Short Field: 10° Flaps – 33 (61). '77-'80 Soft Field: 10° Flaps
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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VERTICAL SCALE = NAUTICAL MILES PER INCH: WAC = 14

This CheckMate Is Available In Three Sizes + Multi-Page CheckBook

NOS = 12 JEPF

JEPP = 15

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)

POWER LOSS IN FLIGHT

BEST GLIDE - 65 KIAS (75 MPH)

(Full Gross Weight)

CARB HEAT - ON

(Also Supplies Alternate Air)

PICK LANDING SITE

MIXTURE - FULL RICH

FUEL SELECTOR - CHECK/SWITCH/BOTH

NOTE WIND DIRECTION & VELOCITY

(Note Gauges)

FUEL PRIMER - LOCKED

(Try Re-Priming)

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

(Full Flaps When Field Assured)

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.)

UNICOM:

122.7 - 122.8 - 122.95 - 123.0 - 123.05 122.9 (CTAF), 122.75, 122.85 (Air To Air)

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 172n (Lycoming O-320-H2AD, 160 HP)

* Empty Weight:

LBS (Specific Plane Weight)

* Max. Useful Load:

LBS (Including Fuel @ 6 lbs/gal)

Max. Baggage Area: Max. T.O. Weight:

120 LBS (Included In Useful Load) 2300 LBS

Fuel Type:

100 LL (Blue) / 100 (Green)

Usable Fuel:

40 Gallons (50 L.R Tanks) 6 Quarts (Minimum 4)

Oil Capacity: Electrical:

24-28 VOLT / 60 AMP

Tire Pressure:

Nose - 31 PSI / Main - 29 PSI

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