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 Reg.

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

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 - 0°-10° Mixture - Best Power Carb Heat-Off Or As Reg. H.I. To Compass Doors / Windows XPDR - Alt + Sawk Landing Light - On Strobes - As Req. 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 Reg. 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

Haps-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

AFTER LANDING

Flaps - Up Carb Heat - Off Strobes - Off Landing Light - Off Taxi Light - As Req. Pitot Heat - Off Mixture - As Rea. 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

85 (98)

| X Wind • Max Demo'd -15 (17) | Vs0 • Stall w/flaps(77-79)-41 (47) |
|---------------------------------|---------------------------------------|
| Vr • Rotation Speed - 55 (63) | Vs0 • Stall w/flaps (1980) - 33 (38) |
| Vx • Best Angle Climb - 59 (68) | Vs • Stall w/o flaps (77-79)-47 (54) |
| Vy · Best Rate Climb - 73 (84) | Vs • Stall w/o flaps (1980) - 44 (51) |

| S | (1980) - 33 | (38) |
|---|-------------|------|
| 5 | (77-79)-47 | (54) |
| S | (1980) - 44 | (51) |

| Desc | Cities (2000 100) |
|------|------------------------------|
| Best | Glide (Full Gross) - |
| Va • | Max Abrupt Ctrl (2000 lbs) - |
| Va • | Max Abrupt (Full Gross) - |

Bost Glide (2000 lbs) -

61 (70)65 (75)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 -

| | 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 wlo Obstacle: 0° Flaps – 55 (63) 1980: Short Field: 10° Flaps – 53 (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 |

are made hereunder, including, but not limited to any warranties for fitness for particular use. The information contained herein varies according to individual sircraft, model, and year of manufacturer and while we believe the information to be accurate, no representations are made as to the degree of accuracy of the tion. This information constitutes only partial information necessary to properly operate an aircraft and is not to be used as a substitute for the use of other information sources routinely used in the operation of aircraft or the acquisition of requisite training to operate aircraft. Purchaser assumes all risk of use

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

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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)

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

(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

3

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

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 |

| * <u>Every Plane</u> 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: 120 LBS (Included In Useful Load)

Max. T.O. Weight: 2300 LBS

Fuel Type: 100 LL (Blue) / 100 (Green)
Usable Fuel: 40 Gallons (50 L.R Tanks)

Oil Capacity: 6 Quarts (Minimum 4)
Electrical: 24-28 VOLT / 60 AMP

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