ΙΝΙΤΙΔΙ

Weather & Den Alt. Weight & Balance Performance Reg. Flight Plan – File Papers - A.R.O.W. Fuel - Both Control Lock Master - On Flans - 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** Seat Belts / Harness 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 Prop - Clear Master - On Beacon - On Mags - Start Oil Pressure Lights - As Reg. Mixture - As Rea.

PRE-TAXI / TAXI

Flaps - Up Heat / Vent / Defrost Avionics - On / Set ATIS / AWOS Altimeter - Set XPDR - Alt + Sawk ADS-B - On Radio - Test Taxi Light - As Reg. Brakes - Test Attitude Indic.-Test

Turn Coord. - Test

H.I./Compass-Test

KNOTS (MPH)

100 (115)

122 (140)

(84)

55 (63)

62 (71)

73

111 (128)

RUN-UP

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

1700 RPM Mags (R&I) – Test Carb Heat - Test Vacuum Amps / Volts Oil Pressure Oil Temperature Idle - (575-625 RPM) CkThrottle Friction

PRE-TAKEOFF

Flaps - 0°-10° Mixture - Best Power Carb Heat-Off Or As Rea. Pitot Heat - As Reg. H.I. To Compass XPDR - Alt + Sqwk Doors / Windows Landing Light - On Strobes - As Rea. Time - Note Brakes - Release

Abort Plan - Ready!

FLAPS º

0

0

0

0

0

TAKEOFF

CheckMate.

Full Throttle 2300 RPM Oil Pressure Rotate * 55 (63) Vv - 73 (84) Flaps - Up

CLIMB

75-85 (86-97) 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 Reg.

Flaps - 30° Or As Reg. Speed * 65 (75)

LANDING

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

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

AFTER LANDING

Flans - Un Carb Heat - Off Strobes - Off Landing Light - Off Taxi Light - As Reg. Pitot Heat - Off Mixture - As Rea Trim - Takeoff XPDR - Alt + Sawk

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

X Wind • Max Demo'd	-15	(17)	
Vr • Rotation Speed —	55	(63)	

o Stan Winaps	10	(40,
Vs • Stall w/o flaps —	50	(58,
Best Glide (1750 lbs)-	-56	(64,
Post Clide (2150 16-1	62	171

Best Glide (Full Gross) -

68 (78) Va • Max Abrupt Ctrl (1750 lbs) - 85 (98)

Vno • Max Structural Cruise - 127 (146) Vne • Never Exceed -158 (182)

Vr •	Rotation Speed —	55	(63)	
Vx •	Best Angle Climb -	62	(71)	
W.	Post Pate Climb -	72	1011	

Vs • Stall w/o	flaps —	50	(58
Best Glide	(1750 lbs) -	56	(64
Best Glide	(2150 lbs) -	62	(71

Va • Max Abrupt Ctrl (2150 lbs) - 95 (109) Va • Max Abrupt (Full Gross) - 105 (121)

- NOTES -

Short Field w/ Obstacle: 10° Flaps - 57 (66) Until Clear

Soft Field w/o Obstacle: 10° Flaps

2300 RPM - 7.0 GPH - 50%

2500 RPM - 8.4 GPH - 62%

Vfe • 10° Flaps -110 (127) Vfe · Full Flaps -85 (98)

	Rotation *
	Best Angle Climb
	Best Rate Climb
ı	CRUISE (TAS-8,000')
ı	Economy

DEPARTURE

conomy	
lormal	
/laximum	

ARRIVAL 75 Approach (86) Short Final * 65 (75) 10-20

2700 RPM - 10.1 GPH - 76% 1700 RPM (Initially) Idle-1200 RPM

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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POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

FLAPS UP - 68 KIAS (78 MPH)

FUEL SELECTOR - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

MASTER & MAGS - OFF

(Unlatch Doors)

POWER LOSS IN FLIGHT

BEST GLIDE - 68 KIAS (78 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

FI FCTRICAL FIRE IN FLIGHT

ALL ELECTRICAL DEVICES + MASTER - OFF

(Mags On)

CLOSE VENTS, CABIN HEAT, & AIR

IF FIRE OUT - MASTER ON ONLY IF CRITICAL

THEN ONE ESSENTIAL ELECTRICAL DEVICE AT A TIME

RESET CIRCUIT BREAKERS ONLY IF CRITICAL

FNGINE FIRE IN FLIGHT

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SELECTOR - OFF

MASTER SWITCH - OFF

(Except Overhead Vents) **CABIN HEAT & AIR - OFF**

INCREASE AIRSPEED TO EXTINGUISH - LAND ASAP

FNGINF 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

CONTINUE CRANKING ENGINE A FEW SECONDS

MASTER & MAGS - OFF

EVACUATE / FIRE EXTINGUISHER

ICING

PITOT HEAT - ON

CARR 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 Diffe	erent Emp	ty Weig	ght And Useful Load
Cessna 172N "Air Plains" 1	80 hp Con	version	n. O-360, Fixed Pitch
* Empty Weight:		LBS (S	ipecific Plane Weight)
* Max. Useful Load:		STREET, SEC.	ncluding Fuel @ 6 lbs/gal)
Max. Baggage Area	a: 120	LBS (Included In Useful Load)
Max. T.O. Weight:	2550	LBS	

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

Usable Fuel: 40 Gallons (50 LR Tanks) + (23 w/Flint Tanks)

Oil Capacity: 8 Quarts (Minimum 6) Electrical: 24-28 VOLT / 60 AMP

Tire Pressure: Nose - 45 PSI / Main - 38 PSI

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