INITIAL

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

EXTERIOR SUMMARY After Thorough Geographical Check

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 Electric Trim

START

Seat Track/Back-Lock Avionics - Off Autopilot - Off Cowl Flaps - Open Carb Heat - Off Mixture - Full Rich Prop - High RPM Throttle - Slight Prime **Brakes** Prop - Clear Master - On Beacon - On Mags - Start Oil Pressure Lights – As Req. Mixture - As Req.

PRE-TAXI / TAXI

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

RUN-UP

Brakes Fuel - Both Trim - Takeoff Flight Controls / AP Instruments Mixture - Best Power 1800 RPM Mags-Test R-L-Both Prop - Cycle Carb Heat - Test Aux Fuel Pump – Test Vacuum Amps / Volts Oil Pressure Oil Temp Idle - Check Closed **Throttle Friction**

PRE-TAKEOFF

Flaps – 10°-15° Mixture – Best Power Prop – High RPM Carb Heat-Off OrAsReq. Pitot Heat – As Req. XPDR – Alt + Sqwk Heading Bug Doors / Windows Landing Light – On Strobes – On Time – Note Brakes – Release

ABORT PLAN-READY!

TAKEOFF

Full Throttle
2700 RPM Max
Manifold Pressure
Oil Pressure
Rotate – * 52 (60)
Vy – 80 (92)
Flaps – Up

CLIMB

78-87 (90-100)
Throttle – 24" MP
Prop – 2500 RPM
Mixture – As Req.
Cowl Flaps–As Req.
Instruments
Taxi/Land Light – Off
Flight Plan – Open

CRUISE

Throttle Prop Mixture Cowl Flaps – Close Instruments

DESCENT

Throttle – MP As Req. Mixture – Richen Fuel – Both Carb Heat – As Req. Cowl Flaps - Close ATIS / AWOS Altimeter Instruments

PRE-LANDING

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

LANDING

Flaps – 30° *Or As Req.* Prop – High RPM * **63** (72)

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

GO-AROUND

Power – Full

Carb Heat – Off

Positive Rate Climb

Flaps – Retract Slowly

Cowl Flaps – Open

AFTER LANDING

Cowl Flaps – Open Carb Heat – Off Flaps – Up Strobes – Off Landing Light – Off Taxi Light – As Req. 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 Cowl Flaps – Close Lights – Off Hobbs / Tach Time Secure Yoke/Brakes Chocks / Tie Downs Pitot Cover Baggage Door Cabin Doors

Close Flight Plan

* Adjust Speed As Needed For Conditions Check Your POH

Check Your POH For Notes / Cautions Plus Manufacturer For Revisions

XWind • Max Demo'd -15 (17)	Vs ₀ • Stall With Flaps – 44 (51)	Va • Max Abrupt Ctrl (2000 lbs) - 93 (107)	Vfe • 10° Flaps — 116 (134)
Vr • Rotation - 52 (60)	Vs • Stall w/o Flaps - 54 (62)	Va • Max Abrupt (Full Gross) - 104 (120)	Vfe • Full Flaps — 91 (105)
Vx • Best Angle Climb - 67 (77)	Best Glide (2000 lbs) - 66 (76)	Vno • Max Structural Cruise - 137 (155)	Emergency Descent - 87 (100)
Vv • Rest Rate Climb - 80 (92)	Best Glide (Full Gross) - 74 (85)	Vne • Never Exceed - 161 (185)	

	KNOTS (MPH)	FLAPS °	– NOTES –
DEPARTURE Rotation * Best Angle Climb Best Rate Climb	52 (60) 67 (77) 80 (92)	10° 0 0	Short Field: 15° Flaps - 60 (69) Until Clear. Soft Field: 15° Flaps
CRUISE TAS-7,500' Economy Normal Maximum	104 (120) 116 (133) 123 (141)	0 0 0	19" MP – 2200 RPM – 7.5 GPH – 56% 21" MP – 2300 RPM – 8.9 GPH – 67% 22" MP – 2500 RPM – 10.1 GPH – 75%
ARRIVAL Approach Short Final *	74 (85) 63 (72)	10-20 30	17" MP (Initially) Prop – High RPM

WARNING: Permission to use this CheckMate® is granted to the authorized purchaser only. No warranties, either express or implied, of any kind, are made hereunder, including, but not limited to any warranties for fitness for particular use. The information contained herein varies according to individual aircraft, 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 information. 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 & Plane Model -Year Variables, Specs Are In: IBS, KIAS, Sea Level, Standard Day, Normal Category, Max Gross Weight, No Wind, Wheel Pants," Best Power", New Engine. () = MPH.

CheckMate Aviation Inc. 800-359-3741 1992-2024

In using this product. Purchaser consents to and understands that CheckMate Aviation Inc., or any related entity, bears no liability for the use of this product. CheckMate Aviation Inc. 800-359-3741 1992-2024

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

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL

BEST GLIDE - 74 KIAS (85 MPH)

Full Gross Weight

FUEL SHUTOFF VALVE - OFF

MIXTURE - FULL LEAN / IDLE CUTOFF

FLAPS - DOWN

MASTER & MAGS - OFF

UNLATCH DOORS PROTECT BODY

POWER LOSS IN FLIGHT

BEST GLIDE - 74 KIAS (85 MPH)

Full Gross Weight

CARB HEAT - ON

NOTE WIND DIRECTION & VELOCITY

PICK LANDING SITE

MIXTURE - FULL RICH

FUEL SHUTOFF VALVE - CHECK ON

FUEL SELECTOR - CHECK/SWITCH/BOTH

Note Gauges

AUX FUEL PUMP - ON

FUEL PRIMER - LOCKED

Try Re-Priming

MAGNETOS - CHECK ALL

MASTER - ON

IF NO RESTART & TIME PERMITS

MAINTAIN BEST GLIDE

PROP - LOW RPM

Full Aft

SQUAWK 7700

DECLARE EMERGENCY

TWR, APP, Unicom, 121.5

MIXTURE - FULL LEAN / IDLE CUTOFF

FUEL SHUTOFF VALVE - OFF

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 SHUTOFF VALVE - CLOSED

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 & PROP SPEED

FLAPS - NOT RECOMMENDED FOR LANDING

LAND FASTER AS NEEDED

OTHER

EXCESSIVE RATE OF CHARGE: Over Voltage Warning Light Will Illuminate If Reaches Approx. 16 Volts. To Reactivate, Turn Both Sides Of The Master Switch Off / Then On Again. If Light Comes On Again, Terminate Flight ASAP.

INSUFFICIENT RATE OF CHARGE: Nonessential Electric - Off / Terminate Flight ASAP.

Local Frequencies:

UNICOM:

122.7 122.725 122.8 122.975 123.0 123.05

MULTICOM:

122.9 (CTAF) 122.75 (Air To Air)

FSS:

122.2

121.3 121.7 121.9 123.5 123.9

GROUND: **EMERGENCY: 121.5**

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.)

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

*	ery Plane Has A Different Empty Weight And Useful Loa				
	Cessna 177B LYCOMING O-360-A1F6, 180 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: 2500 LBS

Fuel Type:

100LL (Blue) / 100 (Green)

Usable Fuel:

49 Gallons

Oil Capacity: 8 Quarts (Minimum 6)

Electrical:

12-14 VOLT / 60 AMP

Tire Pressure:

Nose-35 PSI / Main-30 PSI (#855 & UP)

Nose-30 PSI / Main-30 PSI (#UP TO 854)

C All Rights Reserved, CheckMate Aviation Inc. 1992-2024

Preflight cabin

remove control wheel lock ignition switch: .. OFF master switch: .. ON check fuel gauges check gyros open cowl flaps extend flaps check nav. lights check land. & taxi lights master switch: .. OFF fuel selector: .. on both

Visual check of airplane

Before starting engine

seatbelt/shoulder harness: .. SECURE passenger briefing, doors locked & closed fuel selector valve: BOTH avionics power switch: .. OFF electrical equipment: ... OFF brakes: TEST AND SET cowl flaps: .. OPEN circuit breakers: .. CHECK charts on board

Starting engine

mixture: rich (IN) carb heat: cold (IN) propeller: high RPM prime: (2-6 times) open throttle: .. 1/4"master switch: .. ON

CLEAR AREA

start engine set throttle @ 1200 rpm oil pressure: CHECK lights: AS REQUIRED taxi lights: AS REQUIRED transponder: STANDBY avionics master ON flaps: UP check brakes before taxi lean mixture for taxi

Before landing qr! G gas selector: . BOTH et brakes undercarriage: aets, seat belts, shoulder harness M mixture: ... RICH secure windows and cabin door P prop: HIGH RPM check flight controls s seat belts: . ADJUST set rudder & elevator trim trim: ADJUST check flight instruments landing lights . ON check fuel guages carb heat: ON check fuel valve set mixture at rich (IN) set prop at high RPM level set throttle @ 1800 RPM check mags 150 rpm max. drop (50rpm diff.) check carb heat, (rpm drop) propeller: 3 cycles high to low RPM During landing check for RPM drop final speed ... 65kts check for man. pres increase 15 - 17" Hg. pressure check for oil pressure check engine instruments check ammeter check suction guage After landing reset throttle to 1200 RPM unnecessary lights: . OFF check cowl flaps: .. OPEN carb heat: ... COLD check mixture: .RICH transponder .. OFF set radios & all avionics cowl flaps ... OPEN turn transponder: ON ALT. wing flaps: .. RETRACT turn on lights, as required throttle: set @ 1200 adjust throttle friction lock check aux. fuel pump set wing flaps release parking brake Take-off Rejected landing flaps set power: maximum carb heat @ cold wing flaps: retact to 20° mixture @ rich airspeed: .. 75 MPH throttle @ full open Cowl flaps: open lift off @ 55kts. climb out at Vy...80kts. enroute climb 24" man. pressure 2500 rpm cruise 21-25" Hg 2100-2500 rpm close cowl flaps stall speed flaps @ 30 . 35kts Vy best rate of climb...80kts stall speed flaps up ... 40kts Vx best angle of climb..65kts minimum cruse airspeed . 45kts Va maneuvering speed...83-93kts

power off glide.....65kts