

| | | | | | |
|---|---|--|---|--|--|
| <p>INITIAL</p> <p>Weather & Den. Alt. Weight & Balance Performance Req. Papers – A,R,O,W. Binder Document - Ck. Canopy – Ck Operation Master – On Avionics – On Flaps – Extend Lights – Int. / Ext. Pitot Heat & Stall Horn Fuel Gauge – True Master – Off Avionics – Off ELT – Off Fuel Shutoff - Down/On</p> <p>EXTERIOR SUMMARY <i>After Thorough Geographical Check</i></p> <p>Fuel – Confirm Quality Caps / Drains / Vents Engine Oil As Described Coolant / Radiators Prop / Air Intakes / Cowling Oil & Coolant Blockoffs Exhaust System Surfaces & Controls Pitot Static Ports / AOA Gear / Tires Antennas Ties / Chocks / Towbar</p> <p>BEFORE START</p> <p>Passenger Brief Seat Track – Locked Doors / Belts / Harness Canopy – Latched Fuel Shut-Off Valve – Down/On Throttle – Friction Park Brake Master – On Strobe Light – On Fuses – None Lit ELT – On Bags & Misc – Secure</p> | <p>ENGINE START</p> <p>Brakes – Test & Hold Fuel Pump 1 – On Fuel Pump 2 – Off Lane A & B – Both On Illuminate Properly Fuel Pressure – Green Throttle – 50% <i>Cold</i> Throttle – 35% <i>Warm</i> Prop – Clear Ignition – Engage Throttle – As Req. Oil Pressure – MINIMUM 12 PSI Within 10 Seconds</p> <p>Throttle – 2500 RPM <i>5 Seconds</i></p> <p>Engine Gauges <i>Ck - Shift Gen B To Gen A</i> Ammeter Avionics – On Fuel Pump 2 – On Throttle – As Req.</p> <p>BEFORE TAXI</p> <p>Flaps – Retract Engine Gauges Flight Instruments Avionics – On ATIS / AWOS Lights – As Req. Heater / Def – As Need COMM / NAV Radios PTT - Test Freq. - GND / CLNC Taxi Diagram - Ready Brake - Release & Test</p> | <p>RUN-UP</p> <p>Brakes – Hold Flight Controls – Free & Correct Flight Instruments Fuel Shut-Off Valve – Down/On Fuel Quantity Trim – T/O Canopy – Ck Latched Ctrl Stick – Full Aft Throttle – Max Then 4000 RPM</p> <p>Lane A – Off <i>Max Drop 180 RPM</i> Lane A – On Lane Fault Light Lane B – Off <i>Max Drop 180 RPM</i> Lane B – On Throttle – Idle Ck. then 2000rpm Engine Gauges Fuel Pump 1 – On Fuel Pump 2 – Off <i>Wait 5 Sec - Ck Fuel Pressure</i> Fuel Pump 2 – On Fuel Pump 1 – Off <i>Wait 5 Sec - Ck Fuel Pressure</i> Fuel Pump 1 – On Fuses – Extinguished Freq. - Tower / CTAF</p> <p>PRE-TAKEOFF</p> <p>Flaps – Up Belts / Harness Brakes – Release</p> <p><i>ABORT PLAN READY!</i></p> | <p>TAKEOFF</p> <p>Brakes – Apply Throttle – Full Power Brakes – Release Rotation – 50-55 (57-63)</p> <p>CLIMB</p> <p>Throttle – Full <i>5800 RPM < 5 Min. 5500 RPM Continuous</i> 75 (86) Flaps – Up Enroute – 85 (98) Trim Instruments Flight Plan – Open</p> <p>CRUISE</p> <p>Throttle – Set RPM <i>To Cruise Power 5500 RPM Max</i> Trim – As Required Engine Gauges</p> <p>LOCAL FREQUENCIES</p> <p>ATIS - 135.475 GND - 120.45 TWR - 132.10 TWR (Sec) - 134.30</p> | <p>DESCENT</p> <p>Throttle – As Req. ATIS / AWOS Altimeter Instruments Trim</p> <p>PRE-LANDING</p> <p>Belts & Harness – Pilot & PAX – Tighten Brakes – Pedal Test Lane A & B – Both On Fuel Pumps – Both On Lights – On Steady Flaps – As Req. < 82 (94) * 55-60 (63-69) Trim – As Required Throttle – As Required <i>To Control Rate of Descent</i></p> <p>LANDING</p> <p>Touchdown – Mains 1st After Touchdown – Stabilator Control - Increase To FULL AFT As Speed Decreases Brake – As Required</p> <p>GO-AROUND Power – Full Positive Rate Climb Flaps – Retract Slowly</p> | <p>AFTER LANDING</p> <p>After Clear Of Runway Flaps – Retract Lights – As Req. Trim – Neutral Freq. - Ground</p> <p>SECURING</p> <p>Exterior Lights – Off Avionics Master – Off ELT – Ck Off Throttle – 2000 RPM Lane A & B – Off Throttle – Idle Fuel Pumps – Off Master – Off Stick – Secured w/ Belt Brakes Wheel Chocks Tow Bar Tie-Downs – Secure</p> <p><i>Cold Weather Shutdown Note: Check Fuel For Water.</i></p> <p>Close Flight Plan</p> <p><i>* Adjust Speed As Needed For Conditions. Check Your POH For Notes / Cautions Plus Manufacturer For Revisions.</i></p> |
|---|---|--|---|--|--|

| | | | |
|--|---|---|--|
| Vr • Rotation – 50-55 (57-63) | Vs ₀ • Stall With Flaps – 45 (52) | Vo • Max Abrupt Ctrl (850 lbs) – 72 (83) | Vne • Never Exceed – 136 (150) |
| Vx • Best Angle Climb – 60 (69) | Vs • Stall w/o Flaps – 50 (58) | Vo • Max Abrupt Ctrl (1320 lbs) – 90 (103) | Vfe • Max Flaps Operate – 82 (94) |
| Vy • Best Rate Climb – 75 (86) <i>KCAS</i> | Best Glide (850 lbs) App. 54 (62) | Vo • Max Abrupt (Full Gross) – 108 (124) | X Wind • Max Demo'd – 11 (13) |
| | Best Glide (Full Gross) – 63 (72) | Vno • Max Structural Cruise – 108 (124) | Max Wind • Ground – 30 (34) |

| | KNOTS (MPH) | FLAPS ° | – NOTES – |
|---------------------------------|----------------------|-------------|---|
| DEPARTURE | | | * BEFORE START: During High Ambient Temps Run Fuel Pump For 5 Minutes. |
| Rotation * | 50-55 (57-63) | Half | Short Field: Flaps - Half. Rotate * 50-55 KIAS (57-63) Then 60 KIAS (69) Until Clear Obstacle. |
| Best Angle Climb | 60 (69) | 0 | Soft Field: Flaps - Half. Raise Nose Higher. After Breaking Ground Accelerate To Vx or Vy. |
| Best Rate Climb <i>KCAS</i> | 75 (85) | 0 | |
| CRUISE <i>7,500' TAS</i> | | | |
| Economy | 92 (106) | 0 | 4,500 RPM – 3.3 GPH |
| Normal | 103 (118) | 0 | 5,000 RPM – 3.8 GPH |
| Maximum | 117 (135) | 0 | 5,500 RPM – 4.8 GPH |
| ARRIVAL | | | |
| Approach | 75 (86) | As Required | Short Field Landing – 55 (63) |
| Short Final * | 60 (69) | Full | Flaps – Full |

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 of fitness for particular use. The information contained herein varies according to individual aircraft, model, and year of manufacture 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 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.

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 ECONOMY", Wheel Pants, New Engine. () = MPH.

ALL RIGHTS RESERVED 8.65
CheckMate Aviation Inc. 800-359-3741 1992-2024

POWER LOSS IMMEDIATELY AFTER TAKEOFF / NO RESTART

MAINTAIN AIRCRAFT CONTROL – MOVE CONTROL STICK FORWARD

60 KIAS (69 MPH)

THROTTLE – CLOSED

FUEL SHUT-OFF VALVE – OFF

FLAPS – DOWN

FUEL PUMPS – BOTH OFF

MASTER & IGNITION – OFF **PROTECT BODY**

EMS BACKUP BATTERY SWITCH – OFF

30 AMP GEN MAIN FUSE – PULL/REMOVE

ELT – Consider Activate

POWER LOSS IN FLIGHT

60 KIAS (69 MPH)

SMART GLIDE – HOLD DIRECT-TO BUTTON

If Equipped With Garmin 3GX

PICK LANDING SITE

Note Wind Direction & Velocity

LANE A & B SWITCHES – BOTH ON

EMS BACKUP BATTERY – ON

Master – On?

FUEL PUMPS – BOTH ON

FUEL SHUT-OFF VALVE – ON / DOWN

Note Gauges

THROTTLE – 55% - 65% OPEN

SPAR PIN OVERRIDE SWITCH – HOLD DOWN

IGNITION – ENGAGE

Vary Throttle If Unable To Start

IF NO RESTART & TIME PERMITS

BEST GLIDE – 63 KIAS (72 MPH)

Minimum Rate Of Descent – 59 KIAS (68)

SMART GLIDE – HOLD DIRECT-TO BUTTON

If Equipped With Garmin 3GX

SQUAWK 7700

DECLARE EMERGENCY

TWR, APP, Unicom, 121.5

FUEL PUMPS – BOTH OFF

FUEL SHUT-OFF VALVE – OFF

SEATBELTS / HARNESS

FLAPS – AS NEEDED

Full Flaps When Field Assured

LANE A & B SWITCHES – BOTH OFF

MASTER & IGNITION – BOTH OFF

EMS Backup Battery – Off

30A GEN MAIN BUS FUSE – PULL/REMOVE

ELT – Consider Activating

55-60 KIAS (63-68 MPH) **PROTECT BODY**

ELECTRICAL FIRE IN FLIGHT

ELECTRICAL SWITCHES – ALL OFF

Leave Lane/Ignition Switches – On

30A "GEN MAIN BUSS" FUSE – PULL – REMOVE

AIR VENT – OPEN IF NECESSARY

USE FIRE EXTINGUISHER

LAND ASA POSSIBLE

ENGINE FIRE IN FLIGHT

FUEL SHUT-OFF VALVE – PULL UP – OFF

FUEL PUMPS – BOTH OFF

LANE A&B (OR IGNITION SWITCHES) – BOTH OFF

AIR VENTS & CABIN HEAT – BOTH CLOSED

AIR SPEED – INCREASE IN AN ATTEMPT TO EXTINGUISH FIRE

PROCEED WITH POWER OFF LANDING

ENGINE FIRE DURING START

FUEL PUMPS – OFF

– IF FIRE PERSISTS –

ELECTRICAL SWITCHES – ALL OFF

LANES A & B – BOTH OFF

EVACUATE AIRCRAFT. IF AVAILABLE EXTINGUISH FIRE THROUGH AIR OUTLET TUNNEL AT THE BOTTOM OF THE COWL.

LOW OIL PRESSURE INDICATION

PERFORM PRECAUTIONARY LANDING

THROTTLE – RPM MINIMUM ADJUSTMENT

HIGH OIL PRESSURE INDICATION

PERFORM PRECAUTIONARY LANDING

THROTTLE – REDUCE RPM TO MINIMUM NECESSARY

HIGH OIL TEMPERATURE

ON GROUND: THROTTLE – 2500-3000 RPM, TURN INTO WIND IF POSSIBLE

IN FLIGHT: REDUCE PITCH ANGLE, INCREASE AIRSPEED

GENERATOR A OR B FAILURE

NON-ESSENTIAL ELECTRICAL EQUIPMENT – OFF

LAND AS SOON AS POSSIBLE

NOTE: GENERATOR A IS ABLE TO SUPPLY A LIMITED AMOUNT OF POWER TO THE MAIN BUS IF THE EMS BACKUP BATTERY SWITCH IS TURNED ON.

Turn Off All Non-Essential Electrical Equipment First.

GENERATOR A & B FAILURE

Failure Of Both Generators Will Result In Engine Stoppage.

NON-ESSENTIAL ELECTRICAL EQUIPMENT – OFF

EMS BACKUP BATTERY – ON

FOLLOW ENGINE FAILURE IN FLIGHT

LAND AS SOON AS POSSIBLE

| | | | | | | |
|-------------------|--------------|---------|--------|--------------|-------|--------|
| 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 | | | | | |
| GROUND: | 121.3 | 121.7 | 121.9 | 123.5 | 123.9 | |
| 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.)

* **Every Plane Has A Different Empty Weight And Useful Load.**

Van's RV-12iS LSA ~ Rotax 100 HP

* **Empty Weight:** LBS (Specific Plane Weight)

* **Max. Useful Load:** LBS (Including Fuel @ 6 lbs/gal)

Max. Baggage Area: 75 LBS (Included In Useful Load)

Max. T.O. Weight: 1320 LBS

Fuel Type: 100LL or UL94 or 91 AKI Prem. Unleaded Auto

Usable Fuel: 19.7 Gallons (Max 10% Ethanol Allowed)

Oil Capacity: 3 Liters (.8 Gallons)

Electrical: 12 VOLT / 30 AMP

Tire Pressure: Nose - 22 PSI / Main - 25 PSI