



VANS RV12iS Preflight Checklist

Italicized items have been added



Vol. 1

PREFLIGHT

CABIN

Canopy..... OPEN/CHK CONDITION
Flight Control Lock..... REMOVE
Pitot Tube Cover..... REMOVE
Registration/Airworthiness..... CHECK
POH/Weight & Balance..... CHECK
Ignition Switch..... OFF/KEYS VISIBLE
LANE A/LANE B..... OFF
Master..... ON
Avionics..... ON
 Beacon..... ON
 Fuel Shut off Valve OPEN (push down)
 Fuel Qty..... CHECK
 Flaps..... UP
 Lights..... CHECK AS REQ'D
Master..... OFF
Baggage..... RESTRAINED
Safety Belts/Harness..... CHECK
Fire Extinguisher..... CHECK

LEFT WING

Tire..... CHECK
Brake..... CHECK
Axle Nut..... COTTER PIN INSTALLED
Wheel Bearings..... CHECK
Tie Down..... REMOVE
Wing..... CHECK
Wing Hand Hold..... CHECK (*no free movement*)
AOA STATIC PORT..... CLEAR
Flaperon..... CHECK
Flaperon Hinge Bracket..... CHECK

LEFT FUSELAGE

Flaperon Controls..... CONNECTED
Fuel Sample CHECK
Static Port CLEAN & OPEN

EMPANNAGE

Vertical Stabilizer CHECK
Stabilator CHECK
Anti-Servo Tab CHECK
Rudder CHECK

Tail Tie Down..... REMOVE

RIGHT FUSELAGE

Static Port..... CLEAN & OPEN
Comm Antenna..... CHECK
Fuel Vent Lines CLEAR
Fuel Cap SECURE
Flaperon Controls..... CONNECTED

RIGHT WING/RIGHT MAIN GEAR

Control Surfaces CHECK
Flaperon Hinge Bracket CHECK
Wing Hand Hold CHECK (*no free movement*)
Wing CHECK
Tie Down..... REMOVE
Tire CHECK
Brakes..... CHECK
Axle Nut..... COTTER PIN INSTALLED

NOSE/ENGINE

Tx Antenna CHECK
Muffler CHECK
Coolant LEVEL CHECK
Oil Check Safety + procedure
 Master/Lane A & B..... OFF
 Engine Oil Cap REMOVE
 Hand Prop..... 4 BURPS
 Engine Oil CHECK QTY
 Engine Oil Cap REPLACE
Nose Gear CHECK
Nose Tire CHECK
Tow Bar..... DISCONNECTED
Cowling..... SCREWS INSTALLED
Air Inlets UNOBSTRUCTED
Propeller CHECK
Pitot..... CHECK
Oil & Coolant Radiators..... CHECK
Radiator Blockoffs AS REQ'D

EMPENNAGE

Control Surfaces CHECK
Trim Tabs..... CHECK



VANS RV12iS Normal Checklist



Vol. 1

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BEFORE START

Preflight Inspection.....COMPLETE
Passenger Briefing.....COMPLETE
Baggage.....RESTRAINED
Seats/Seat Belts.....ADJUST/LOCK
Canopy.....LATCHED
Fuel Shut-Off Valve.....CHECK IN (*push down*)
Throttle.....CHECK FRICTION
Master.....ON
Fuses.....CHECK – NOT ILLUMINATED
Strobe Lights.....ON (*delay if battery low*)
Lanes A & B.....ON

START TEMP/THROTTLE POSITION

Condition.....POSITION BEFORE CRANKING
Cold Start.....60% +/- 5%
Warm Start/Restart.....35% +/- 5%

ENGINE START

Brakes.....TEST/HOLD
Fuel Pump 1 & 2.....ON
Lane A / Lane B Fault Lights.....EXT. AFTER 3 SEC.
IF LANE LIGHT FLASHED/FAILS/REMAINES
ILLUMINATED ABORT START AND REFER TO LANE
FAULT PROCEDURE
Fuel Pressure.....CHECK > 0
Throttle Position.....SET
Cold Start.....50% +/- 5%
Warm Start/Restart.....35% +/- 5%
Propeller Area.....CLEAR
Ignition Key.....ENGAGE UNTIL RPM >1500

***DO NOT CRANK MORE THAN 10 SECONDS. ALLOW
FOR 2 MIN COOLING BEFORE INITIATION NEXT START.***

Throttle.....REDUCE AS REQ'D
Oil Pressure.....CHECK 12PSI W/IN 10 SEC. OR SHUT OFF
Throttle.....ABOVE 2500 for 5 SEC.
Engine Gauges.....CHECK – SHIFT GEN B TO GEN A
Ammeter.....CHECK CHARGING
Avionics Switch.....ON
Throttle Until Oil Temp 120F/50C.....AT/BELOW 2500

TAXI

Engine Gauges.....CHECK
Flight Instruments.....CHECK/SET
Brakes.....RELEASE/CHECK
Taxi Throttle Until Oil Temp 120F/50C...1800-2500RPM
***On cool days higher RPM may warm oil faster. On hot
days or hi CHT, increase RPM to 3,500+ if needed for
cooling airflow.***

Flight Controls in Wind.....POSITION CONVENTIONALLY

RUN UP

Brakes.....HOLD
Flight Controls.....FREE/CORRECT
Fuel Quantity.....CHECK
Fuel Shut Off Valve.....CHECK IN (*push down*)
Trim.....SET FOR T/O
Canopy.....Latched
Oil Temp.....CHECK MINIMUM 120F
Control Stick.....FULL AFT
Lane & Ignition Check.....COMPLETE
ThrottleMAX, SMOOTH ABOVE 5000
Throttle.....4000 RPM
Lane AOFF/MAX DROP 180 RPM
Lane AON
Lane Fault Light ...WAIT TO EXTINGUISH
Lane BOFF/MAX DROP 180 RPM
Lane BON
Throttle2500 RPM
Engine GaugesCHECK
Fuel Pump Check.....COMPLETE
Fuel Pump 1 .OFF/WAIT 5 SEC/ CHECK 40.6-55.1 PSI
Fuel Pump 1.....ON
Fuel Pump 2 ..OFF/WAIT 5 SEC/ CHECK 40.6-55.1 PSI
Fuel Pump 2ON
FusesCHECK
Seat belt/Harness.....FASTENED
T/O Briefing.....REVIEW
InstrumentsCHECK/SET
Brakes.....RELEASE

NORMAL TAKEOFF

Throttle.....SMOOTHLY FULL OPEN
Stabilator Control.....SLIGHT BACK PRESSURE
Lift Off.....55 KIAS
Climb75 KIAS
Flaps.....UP
Trim.....AS REQ'D

OBSTACLE TAKEOFF

Use Normal T/O Procedure Except:
FlapsHALF
Breaks.....HOLD UNTIL FULL POWER
Lift Off.....55 KIAS
Climb60 KIAS UNTIL CLEAR OF OBSTACLE

SOFT-FIELD TAKEOFF

Use Normal T/O Procedure Except:
FlapsHALF
Stabilator.....HOLD BACK PRESSURE
After Lift-Off.....LEVEL OFF IN GROUND EFFECT
Warning.....CONTINUED CLIMB BELOW 60 KIAS NOT RECOMMENDED

CLIMB

Throttle.....FULL
Rpm Limit.....5800 RPM MAX/5 MIN
Max Continuous5500 RPM
Best Rate75 KIAS/FLAPS UP
Best Angle60 KIAS/FLAPS HALF
Cruise Climb.....85 KIAS/FLAPS UP
Engine Gauges.....CHECK
Trim.....AS REQ'D

CRUISE

Flaps.....CHECK UP
Throttle.....CRUISE POWER 5000 RPM
Trim.....AS REQ'D
Engine Gauges.....CHECK
ECO/Power Mode.....MONITOR

DESCENT

Throttle.....REDUCE
Flight Instruments.....ADJUST
Airspeed.....AS DESIRED
Engine Gauges.....MONITOR
Flaps.....AS REQ'D BELOW 82KIAS
Engine Cooling.....MAINTAIN TEMPS IN GREEN
***Avoid prolonged windmilling and use airspeed/power
as appropriate.***

LANDING

Seat belts/Harness.....FASTENED/SNUG
Fuel Shut-Off.....ON
Fuel Pumps.....BOTH ON
Canopy.....LATCHED
Flaps.....AS REQ'D BELOW 82 KIAS
Final Approach.....65 KIAS
TouchdownMAIN WHEELS FIRST
Braking.....AS REQ'D

GO AROUND/BALKED LANDING

Throttle.....FULL POWER
Pitch.....CLIMB ATTITUDE
FlapsADJUST PER POH/AS REQ'D
Airspeed.....60 KIAS
Positive Climb.....CONFIRM
Flaps.....RETRACT AS APPROPRIATE
Climb.....75 KIAS WHEN CLEAR

AFTER LANDING

FlapsUP
Trim.....SET FOR TAKEOFF/AS REQ'D
Lights.....AS REQ'D
Fuel Pumps.....CONFIG. PER LOCAL SOP/POH
Taxi Throttle.....AS REQ'D

SHUTDOWN

Avionics SwitchOFF
Lights.....OFF
Throttle.....2000 RPM
Lane A/Lane BOFF
Fuel Pump 1 & 2OFF
Flight Hobbs TimesRECORD
MasterOFF
Canopy.....CLOSED/SECURED
Tie Downs.....INSTALLED
Control Stick.....SECURED
Air Vents.....CLOSED



VANS RV12iS Emergency Checklist



Boldface items should be committed to memory

Italicized items have been added

Red items are WARNINGS

ENGINE FAILURE DUR. FLIGHT

Airspeed **63 KIAS**
Fuel Cut Off Valve **CHECK ON**
LANE A&B **CHECK**

ENGINE FAILURE ON. T/O

Airspeed..... **60 KIAS (55 KIAS Min)**
Suitable Landing Area..... **Select**
Flaps **FULL DOWN**
Fuel Shut-Off Valve **OFF**
Lanes A & B**BOTH OFF**
Fuel Pump Switches**BOTH OFF**
Master Switch **OFF**

ENGINE AIR RESTART

Maintain Airspeed **60 KIAS min**
Smart Glide **Hold Direct-To Button on G3X**
Lane A & B switches **BOTH ON**
EMS Backup Battery Switch **ON**
Fuel Pump Switches **BOTH ON**
Fuel Shut-Off Valve **CHECK ON – DOWN**
Throttle **SET to 55%-65%**
Spar Pin Override Switch **HOLD DOWN**
Ignition Key **ENGAGE**

EMERGENCY LANDING W/O POWER

If engine restart is not possible:

Airspeed-best glide **63 kts**
Smart Glide **Hold Direct-To Button on G3X**
Fuel Shutoff Valve **PULL UP – OFF**
Fuel Pump Switches **BOTH OFF**
Flaps **UP for max range**
Squawk **7700**
ELT..... **ACTIVATE for off airport landing**
Radio **MAYDAY 121.5**
Lane A & B switches **BOTH OFF**
Final Approach **55-60 KIAS**
Flaps **DOWN when landing assured**
Master Switch **OFF**
30A “Gen Main Bus” Fuse**PULL-REMOVE**

ENGINE FIRE IN FLIGHT

Throttle.....**CLOSED**
Fuel Shutoff Valve**PULL UP - OFF**
Fuel Pump Switches**BOTH OFF**

Lane A & B**BOTH OFF**
Air Vents and Cabin Heat **CLOSED**
Airspeed Increase
Consider side slip to divert smoke
Radio MAYDAY **121.5**

Emergency Landing W/O Power Procedure

ELECTRICAL FIRE IN FLIGHT

Electrical Switches **ALL OFF**
30A “Gen Main Bus” Fuse **PULL - REMOVE**
Air Vent **OPEN if necessary**
Fire Extinguisher **ACTIVATE**

DITCHING

Smart Glide **Hold Direct-To Button on G3X**
ELT **ACTIVATE**
Transponder..... **SQUAWK 7700**
Radio..... **MAYDAY 121.5**
Seats and Seat Belts**SECURE**
Fuel Pump Switches **BOTH OFF**
Lane A & B **BOTH OFF**
Flaps **DOWN**
Master Switch **OFF**
30A “Gen Main Bus” Fuse**PULL-REMOVE**

Approach:

High winds, heavy seas **INTO THE WIND**
Light winds, heavy swells - **PARALLEL TO SWELLS**
Canopy **UNLATCH**
Touchdown **LEVEL ATTITUDE**
Face.....**CUSHION at touchdown**
Life Vests/Raft..... **CLEAR of A/C INFLATE**

PARTIAL POWER LOSS

Follow the “Engine Air Restart Procedure”

LANE A & B INDICATOR LIGHTS

Either light Flashing.....**LDG Recommended**
Either Light Continuous On.....**Landing ASAP**

MEMORY ITEMS

ITEM.....**LIMITATION VALUE**
Gross Weight**1320 LBS**
VSO**41 KIAS**
VS1.....**45 KIAS**
VX**60 KIAS**
VY**75 KIAS**

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MISC. INFO:

NORMAL TAXI = 2500 rpm

FLIGHT IDLE = 3800 rpm

LANE A/B FAULT LIGHT PROCEDURE = pg. 3-3 in POH

MANEUVERS = ESP OFF

ENGINE OUT = SMART GLIDE ENGAGED (HOLD DIRECT BUTTON FOR 3 SECS)

CHECK FAILURE INDICATIONS IN MENU - SYSTEM