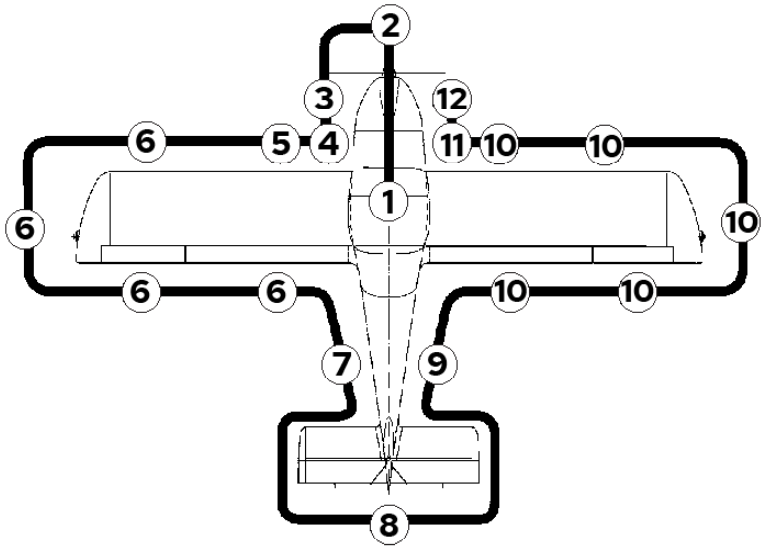
FOOTHILL FLIGHT CENTER

# EVEKTOR SPORTSTAR PRE-FLIGHT INSPECTION




## 1. COCKPIT

Documents ..... **A.R.O.W.**
Hobbs ..... **NOTED**
Master Switch ..... **ON**
Fuel Qty. ..... **CHECK**
Exterior Lights ..... **ON/CHECK**
Master Switch ..... **OFF**
Loose Objects ..... **CHECK/SECURE**
Rudder Pedals .. **ADJUSTED/SECURE**
**(right and left rudder control must be set to the same positions and well secured!)**
Elevator Trim ..... **TAKEOFF**
Flaps ..... **50 DEG**

## 2. PROPELLER

Attachment ..... **CHECK**
Blades, Hub, Spinner ..... **INSPECT**

## 2. NOSE LDG GEAR

Ldg. Gear Leg Attachment ..... **CHECK**
Ldg. Gear Wheel Condition ..... **CHECK**
Tire Condition/Inflation ..... **17-20 PSI**
Wheel Covers ..... **SECURE (if installed)**

## 3. ENGINE

**First Flight of Day**
**(remove upper engine cowling)**
Engine Bed Condition ..... **CHECK**
Engine Attachment ..... **CHECK**
Exhaust System ..... **SECURE/NO CRACKS**
Lower Engine Cowling ..... **SECURE**
Fuel/Electrical Systems ..... **CHECK**
Cooling Liquid Tank ..... **CHECK**
**(replenish as required up to max. 2/3 of the expansion tank volume)**

## 3. ENGINE

**Every Flight**
Cleanness of Air Intakes ..... **CHECK**
Oil Level ..... **BETWEEN MARKS**
**(flattening on the dipstick)**
Upper Engine Cowling ..... **SECURE**

## 4. FRONT FUSELAGE / LH

Canopy Attachment ..... **CHECK**
Canopy Condition ..... **CHECK**

## 5. LEFT LDG GEAR LEG

Ldg. Gear Leg Attachment ..... **CHECK**
Ldg. Gear Wheel Condition ..... **CHECK**
Tire Condition/Inflation ..... **20-23 PSI**
Wheel Covers ..... **SECURE (if installed)**

## 6. LEFT WING

Wing Surface Condition ..... **CHECK**
Leading Edge Condition ..... **CHECK**
Pitot Tube, Static Ports ..... **CLEAR**
Wing Tip Surface Condition ..... **CHECK**
Wing Tip Attachment ..... **CHECK**
Fuel Vent ..... **CLEAR**
Position/Anti-Coll. Lgts. ..... **SECURE**
Aileron Surface Condition ..... **CHECK**
Aileron Attachment ..... **SECURE**
Aileron Movement ..... **FREE/CORRECT**
Flap Surface Condition ..... **CHECK**
Flap Attachment ..... **SECURE**
Left Fuel Tank ..... **DRAIN SUMP**
Left Fuel Qty. ..... **VERIFY**
Left Fuel Cap ..... **CLOSED**

## 7. REAR PART OF FUSELAGE

Surface Condition ..... **CHECK**
Antennas ..... **SECURE**

## 8. EMPENNAGE

L. Horiz. Stab Surface Cndtn ..... **CHECK**
Rudder Condition ..... **CHECK**
Rudder Attachment ..... **CHECK**
Rudder Mvmt. ..... **FREE/CORRECT**
Elevator Condition ..... **CHECK**
Elevator Attachment ..... **CHECK**
Elevator Mvmt. ..... **FREE/CORRECT**
Trim Tab Condition ..... **CHECK**
Trim Tab Control ..... **CHECK**
Trim Tab Position ..... **NEUTRAL**
Tail Skid Condition ..... **CHECK**
R. Horiz. Stab Surface Cndtn ..... **CHECK**

## 9. REAR FUSELAGE

Surface Condition ..... **CHECK**

## 10. RIGHT WING

Flap Surface Condition ..... **CHECK**
Flap Attachment ..... **SECURE**
Aileron Surface Condition ..... **CHECK**
Aileron Attachment ..... **SECURE**
Aileron Movement ..... **FREE/CORRECT**
Fuel Vent ..... **CLEAR**
Position/Anti-Coll. Lgts. ..... **SECURE**
Wing Tip Surface Condition ..... **CHECK**
Wing Tip Attachment ..... **CHECK**
Wing Surface Condition ..... **CHECK**
Leading Edge Condition ..... **CHECK**
Right Fuel Tank ..... **DRAIN SUMP**
Right Fuel Qty. ..... **VERIFY**
Right Fuel Cap ..... **CLOSED**

## 11. RIGHT LDG GEAR LEG

Ldg. Gear Leg Attachment ..... **CHECK**
Ldg. Gear Wheel Condition ..... **CHECK**
Tire Condition/Inflation ..... **20-23 PSI**
Wheel Covers ..... **SECURE (if installed)**

## 12. FRONT FUSELAGE / RH

Canopy Attachment ..... **CHECK**
Canopy Condition ..... **CHECK**

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# EVEKTOR SPORTSTAR NORMAL CHECKLIST

## PRE-FLIGHT RISK ASSESSMENT

| | |
|---|---|
| Four Risk Elements | **P.A.V.E** |
| Weather | **CHECKED.BRIEFED** |
| NOTAMS | **CHECKED.BRIEFED** |
| TFRs | **CHECKED.BRIEFED** |
| Flight Plan | **DETERMINED.FILED (if necessary)** |
| Weight and Balance | **CALC.CONFIRM (within limits)** |
| Performance Data | **CALC.CONFIRM (conditions / facilities acceptable)** |

## BEFORE STARTING

| | |
|---|---|
| Passenger Briefing | **S.A.F.E.T.Y.** |
| Canopy | **CLOSED.LOCKED** |
| Canopy Safety Catch | **SECURED** |
| Seat Belts | **ON.LOCKED** |
| Flaps | **0 DEG** |
| Ignition Key | **OFF** |
| Throttle | **IDLE BACK** |
| Switches | **OFF.ALL DOWN** |
| Circuit Breakers | **CHECK ALL IN** |
| Parking Brake | **OFF** |

## ENGINE START

| | |
|---|---|
| Fuel Selector | **LEFT** |
| Choke | **PULL ON** (for cold start) |
| Throttle | **IDLE.PULL TO STOPS** |
| Master | **ON** |
| Beacon | **ON** |
| Fuel Pump | **ON** |
| Prop Area | **CLEAR** |
| Ignition Key | **START** |
| Oil Pressure | **+29 PSI** |
| Choke | **OFF** |
| Throttle | **2000 RPM** |
| Fuel Pump | **OFF** |

**Max RPM 2500 until 122 deg oil temp!**

## BEFORE TAXI

| | |
|---|---|
| Generator Switches | **ON (if installed)** |
| Avionics | **ON** |
| Other Electrical | **ON** |
| Autopilot | **ON (if installed)** |
| Transponder | **ALT. 1200** |
| Radio | **TUNE** |
| GPS | **INITIALIZE** |
| ATIS/AWOS WX | **OBTAIN** |
| Fuel Selector | **RIGHT** |

## WHILE TAXIING

| | |
|---|---|
| Brakes | **CHECK OPERATION** |
| Control Stick | **SET FOR WIND DIR.** |

## RUN UP AREA

| | |
|---|---|
| Flight Controls | **FREE.CORRECT** |
| Instruments | **CHECK.SET** |
| Radios | **SET** |
| Transponder | **ALT.CORRECT CODE** |
| Fuel Selector | **LEFT** |
| Trim | **TAKE-OFF** |
| Oil Temp | **ABOVE 122 DEG** |
| Brakes | **HOLD** |
| Throttle | **4000 RPM** |
| Ignition | **CHECK R, L, BOTH** |
| Max Drop | **-300 RPM, 120 RPM DIFF** |
| Engine Gauges | **CHECK** |
| Carb Heat | **CHECK** |
| Throttle | **CHECK IDLE** |

## BEFORE ENTERING RUNWAY

| | |
|---|---|
| Seat Belts | **SECURE** |
| Canopy | **CLOSED.LOCKED** |
| Canopy Safety Catch | **SECURED** |
| Departure Briefing | **COMPLETE** |
| Lights | **BEACON, LDG LIGHT** |
| Parking Brake | **OFF** |

**LINE-UP ITEMS (OVER)** →

## LINE-UP ITEMS

| | |
|---|---|
| Flaps | **15 DEG** |
| Trim | **TAKE-OFF** |
| Fuel Selector | **LEFT** |
| Flight Timer | **START** |
| Fuel Pump | **ON** |

## TAKE-OFF

| | |
|---|---|
| Elevator | **SLIGHTLY AFT OF NEUTRAL** |
| Throttle | **SMOOTHLY TO FULL** |
| RPM, Oil Pressure, Airspeed | **VERIFY** |

## CLIMB

| | |
|---|---|
| Throttle | **5500 RPM** |
| Airspeed | **55-63 KIAS** |
| Flaps | **0 DEG** |
| Fuel Pump | **OFF** (1000 FT. AGL) |
| Engine Instruments | **MONITOR** |

## CRUISE

| | |
|---|---|
| Fuel Pump | **OFF** |
| Throttle | **4500 - 5000 RPM** |
| Fuel Quantity | **MONITOR** |
| Engine Instruments | **MONITOR** |

## DESCENT

| | |
|---|---|
| Throttle | **REDUCE** |
| Descent | **INITIATE** |
| ATIS/AWOS WX | **OBTAIN** |
| Approach Brief | **COMPLETE** |

## BEFORE LANDING

| | |
|---|---|
| Fuel Pump | **ON** |
| Fuel Selector | **FULLEST TANK** |
| Seatbelts/Harnesses | **SECURE** |
| Trim | **AS NEEDED** |
| Throttle | **4000 RPM** |

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## DOWNWIND, ABEAM

| | |
|---|---|
| Throttle | **3000 RPM** |
| Flaps | **15 DEG** |
| Airspeed | **60 KIAS** |
| Trim | **ADJUST** |
| Rate of Descent | **~500 FPM** |

## BASE LEG

| | |
|---|---|
| Flaps | **30 DEG** |
| Airspeed | **55-60 KIAS** |
| Trim | **ADJUST** |

## FINAL APPROACH

| | |
|---|---|
| Flaps | **50 DEG** |
| Airspeed | **50-55 KIAS** |
| Trim | **ADJUST** |

## GO AROUND

| | |
|---|---|
| Throttle | **FULL** |
| Flaps | **15 DEG** |
| Climb | **55 KIAS** |
| Flaps | **RETRACT AT SAFE ALT** |
| Airspeed | **62 KIAS** |

## AFTER LANDING

| | |
|---|---|
| Fuel Pump | **OFF** |
| Lights | **LDG LIGHT OFF** |
| Flaps | **0 DEG** |

## SHUTDOWN

| | |
|---|---|
| Throttle | **IDLE** |
| Avionics | **OFF** |
| Generator Switches | **OFF (if installed)** |
| Ignition Key | **L, R, OFF, REMOVE** |
| Master Switch | **OFF** |

## V SPEEDS

| | |
|---|---|
| $V_X$ (flaps 15) | **52 KIAS** |
| $V_Y$ (flaps 0) | **62 KIAS** |
| $V_A$ | **86 KIAS** |
| $V_{GLIDE}$ | **57 KIAS** |
| Max Crosswind | **10 kts.** |

# EVEKTOR SPORTSTAR EMERGENCY CHECKLIST

## ENGINE FIRE ON GROUND

**FUEL SELECTOR** ..... **OFF**
**THROTTLE** ..... **OPEN.FULL**
**IGNITION** ..... **OFF**
**MASTER SWITCH** ..... **OFF**
**EVACUATION** ..... **INITIATE**
**EXTINGUISHER** ..... **USE**

## ENGINE FAILURE ON T/O ROLL

**THROTTLE** ..... **IDLE**
**BRAKES** ..... **AS NECESSARY**
*(if likely to overrrun runway surface)*
**IGNITION** ..... **OFF**
**FUEL SELECTOR** ..... **OFF**
**MASTER SWITCH** ..... **OFF**

## ENGINE FAILURE ON DEPARTURE

**PITCH ATTITUDE** ..... **REDUCE**
**BELOW 500 FT. AGL** .....
**LAND STRAIGHT AHEAD, SLIGHT TURN LEFT OR RIGHT AS NECESSARY**

**ABOVE 500 FT. AGL** .....
**TURN BACK TO RUNWAY**

## ENGINE RUNNING ROUGH

**CARBURETOR HEAT** ..... **ON**
Throttle ..... **ADJUST TO IDLE, THEN CRUISING POWER**

## ENGINE FAILURE IN FLIGHT

**AIRSPEED** ..... **57 KIAS**
**BEST FIELD** ..... **TURN TOWARDS**
**CHECKLIST** ..... **ATTEMPT RESTART**
Master Switch ..... **ON**
Unnecessary Electrical Equipment ..... **OFF**
Fuel Pump ..... **ON**
Fuel Selector ..... **SWITCH TANKS**
Choke ..... **AS NEEDED**
Throttle ..... **IDLE** (choke opened)
**INCREASE IDLE** (choke closed)
Ignition ..... **BOTH** (propeller windmilling)
**START** (propeller stopped)
*(if start does not occur)*
Airspeed ..... **INCREASE TO 108 KIAS**
Ignition ..... **BOTH**

## EMERGENCY POWER OFF LDG

**AIRSPEED** ..... **57 KIAS**
**BEST FIELD** ..... **TURN TOWARDS, SPIRAL OVER, SETUP PATTERN**
**CHECKLIST** .... **RESTART ATTEMPTED**
Declare Emergency ..... **MAYDAY 121.5**
**TRANSPONDER 7700**
Seatbelts/Harnesses ..... **TIGHTEN**
Flaps ..... **50 DEG**
Airspeed ..... **48 KIAS**
Fuel Pump ..... **OFF**
Master Switch ..... **OFF**
Ignition ..... **OFF**
Fuel Selector ..... **OFF**
*(after landing)*
Canopy ..... **UNLOCK**
Canopy Safety Catch ..... **RELEASED**
Evacuation ..... **INITIATE**

**IN ANY EMERGENCY - DO NOT STOP FLYING THE AIRPLANE!**
**AVIATE. NAVIGATE. COMMUNICATE.**




# EVEKTOR SPORTSTAR EMERGENCY CHECKLIST

## ENGINE FIRE IN FLIGHT

**FUEL SELECTOR** ..... **OFF**
**THROTTLE** ..... **OPEN.FULL**
**HOT AIR KNOB** ..... **CLOSE**
**IGNITION** ..... **OFF**
**MASTER SWITCH** ..... **OFF**
**VENTS** ..... **CLOSE**
**DIVE/SIDE SLIP** ..... **INITIATE**
**EMER POW OFF LDG** ..... **PERFORM**

## ELECTRICAL FIRE IN COCKPIT

**MASTER SWITCH** ..... **OFF**
**FIRE EXTINGUISHER** ..... **DISCHARGE**
Vents ..... **OPEN**
All Switches/Elec. Systems ..... **OFF**
Master Switch ... **ON (only if necessary for safe landing)**
Electrical Systems ..... **ON (only if determined not to be source of fire)**

## UNINTENTIONAL SPIN RECOVERY

**POWER** ..... **IDLE**
**AILERONS** ..... **NEUTRAL**
**RUDDER** ..... **OPPOSITE DIRECTION OF SPIN ROTATION**
**ELEVATOR** ..... **FORWARD (HOLD UNTIL ROTATION STOPS)**
*(after rotation stops)*
**RUDDER** ..... **NEUTRAL**
**ELEVATOR** ..... **RECOVER FROM DIVE**

## ELECTRIC TRIM RUNAWAY

**TRIM CONTROL** ... **SELECT OPPOSITE DIRECTION**
*(if no effect)*
**TRIM CIRCUIT BREAKER** ..... **PULL**
**POWER** ..... **REDUCE**
**ADJUST PITCH AND POWER TO MAINTAIN LEVEL FLIGHT.**

*(once aircraft control is regained AND if sufficient altitude exists, troubleshoot-)*
Trim Control Switches ..... **VERIFY NOT STUCK**
*(anticipate high control pressures/stick force)*
Trim Circuit Breaker ..... **RESET**
Trim Control ..... **SELECT OPPOSITE DIRECTION**
*(if no effect)*
Trim Circuit Breaker ..... **PULL**

Prepare to land at the nearest airport. Identify the pitch and power configuration that gives you the most amount of control with the least amount of stick force required to maintain control.
Note: Extending flaps will cause a nose-down pitch change, which will help in a nose-up trim condition, but aggravate a nose-down trim condition.

**IN ANY EMERGENCY - DO NOT STOP FLYING THE AIRPLANE!**
**AVIATE. NAVIGATE. COMMUNICATE.**

***NOTE - MEMORY ITEMS: both the CHALLENGE and RESPONSE appear in BOLDFACE, ALL CAPS**

**CHALLENGE** ..... **RESPONSE**
Challenge ..... **RESPONSE**

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