**Evektor Sportstar N102EV Checklist**

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| Before Engine Starting |
| Pre-flight, weight & balance | COMPLETE |
| Documents | A.R.O.W. |
| Chocks/Tie-down | REMOVED |
| Safety Harnesses | ON |
| Ignition Key | OFF |
| Throttle | IDLE |
| Switches | OFF, ALL DOWN |
| Circuit Breakers | CHECK ALL IN |
| Parking Brake | OFF |
| Brakes | CHECK |
| Control Stick | FREE, CORRECT |
| Rudder Pedals | FREE, CORRECT |
| Flaps | FUNCTION CHECK |
| Master Switch | ON |
| Trim tab | FUNCTION CHECK |
| Hobbs | NOTED |
| Canopy | CLOSED, LOCKED |

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| Engine Start |
| Master Switch | ON |
| Fuel Selector | LEFT |
| Fuel Pump | ON |
| Throttle | IDLE, BACK |
| Beacon | ON |
| Prop Area | CLEAR |
| Brakes | APPLY |
| Ignition Key | START |
| Choke | PULL ON while starting, PUSH IN when started |
| Throttle | 2000-2500 RPM |
| Oil Pressure | > 29 PSI |
| Gen & Aux Gen | ON |
| Fuel Pump | OFF |
| Throttle | MAX 2500 RPM until > > 122 DEG oil temp |

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| Before Taxi |
| Fuel Selector | RIGHT, one minute |
| Avionics | ON |
| Other Electrical | ON AS NEEDED |
| Transponder | STANDBY |
| Radio | TUNE, adjust squelch & volume |

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| While Taxiing |
| Throttle | AS NECESSARY |
| Brakes | CHECK OPS |
| Control Stick | SET FOR WIND DIR |
| Rudder Pedals | FUNCTION CHECK |

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| Before Take-off |
| Brakes | APPLY |
| Ignition Check(Oil Temp must be >122 DEG) | CARRY OUT4000 RPML, BOTH, R, BOTH< 300 RPM drop ea.< 120 RPM difference |
| Engine Instruments | CHECK |
| Control Stick | FREE |
| Flaps | TAKE-OFF (15 DEG) |
| Trim | NEUTRAL |
| Fuel | CHECK |
| Fuel Selector | LEFT |
| Carb Heat | FUNCTION CHECK then OFF |
| Engine Instruments | CHECK |
| Flight Instruments | CHECK, SET Altimeter |
| Radiostation/Avionics | CHECK, SET |
| Ignition | BOTH |
| Choke | IN |
| Master Switch | ON |
| Fuel Pump | ON |
| Landing Light | ON |
| Transponder | ALT |
| Safety Harnesses | TIGHTEN |
| Canopy | CLOSED, LOCKED |

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| Take-off and Climb |
| Throttle | FULL |
| Airspeed | 53 Vx (best angle) |
| Flaps | RETRACT at 200’ AGL |
| Airspeed | 63 Vy (best rate) |
| Engine Instruments | CHECK |
| Landing Light | OFF |

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| Cruise |
| Throttle | Cruise Power |
| Airspeed | 105 MAX90 MANEUVERING |
| Engine Instruments | CHECK |
| Fuel Pump | OFF |
| Fuel Quantity | CHECK |
| Carb Heat | As necessary |

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| Descent |
| Engine Instruments | CHECK |
| Carb Heat | ON |

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| Before Landing |
| Fuel Quantity | CHECK |
| Fuel Selector | LEFT |
| Engine Instruments | CHECK |
| Brakes | CHECK |
| Safety Harnesses | TIGHTEN |
| Carb Heat | ON |
| Airspeed | 60 |
| Flaps | TAKE-OFF (15 DEG) |
| Parking Brake | OFF |
| Fuel Pump | ON |
| Landing Light | ON |

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| Final |
| Flaps | LANDING (30 or 50 DEG) |
| Airspeed | 60 |
| Carb Heat | OFF |

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| Balked Landing |
| Throttle | FULL |
| Flaps | TAKE-OFF (15 DEG) |
| Airspeed | 53 Vx (best angle) |
| Flaps | RETRACT at 200’ AGL |
| Airspeed | 63 Vy (best rate) |

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| Landing |
| Throttle | IDLE |
| Touch-down | Main gear first |
| Brakes | As necessary after nose gear touch-down |

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| After Landing |
| Flaps | RETRACT |
| Trim | Neutral |
| Landing Light | OFF |
| Transponder | STANDBY |
| Fuel Pump | OFF |

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| Engine Shut-off & Parking |
| Throttle | IDLE |
| Engine Instruments | CHECK |
| Hobbs | NOTED |
| Avionics | OFF |
| Radiostation/Avionics | OFF |
| Other | OFF |
| Ignition | OFF |
| Beacon | OFF |
| Master Switch | OFF |
| Fuel Selector | OFF |
| Canopy | CLOSED, LOCKED |
| Chocks/Tie-down | INSTALLED |

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Best Power Off Glide = 57 knots