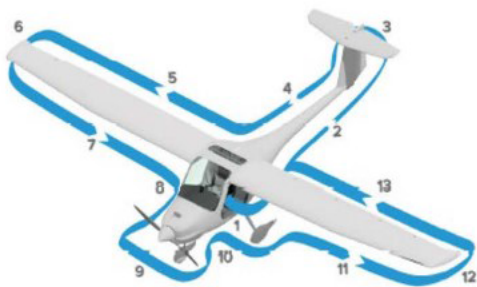


Alpha Trainer PREFLIGHT CHECKLIST



COCKPIT

AROW ON BOARD
 VOR Accuracy Test..... CURRENT
 BPRS Handle/Pin..... PIN INSTALLED
 Ignition Switch..... VERIFY OFF/KEY OUT
 Green Electric Switches..... OFF
 ELT Switch..... ARMED
 Flight Controls..... FREE AND CORRECT
 Rudder Cables..... GOOD CONDITION
 Circuit Breakers..... IN
 Master & Avionics Switches ON
 Generator Fail Light..... Verify ON
 Displays Verify ON
 Databases CURRENT
 Aircraft Time RECORD
 Voltmeter 12-14V
 Lights ON/CHECK/OFF
 Fuel Quantity CHECK
 Fuel Valve..... OPEN

Trim INDICATIONS/STICK MOVEMENT
 Avionics/Master Switches OFF

LEFT FUSELAGE

Antennas SECURE
 Wing/Fuselage seal..... CHECK
 Fuel Cap..... SECURE
 Static Port..... CLEAR

EMPENAGE

Horizontal Stab CHECK
 Vertical Stab CHECK
 Elevator..... CHECK/MOVEMENT
 Rudder..... LIFT NOSE, CHECK/MOVEMENT
 Hinges/Bolts/Springs SECURE

RIGHT FUSELAGE

BPRS Cover..... SECURE/NO CRACKS
 Rocket Exhaust CHECK
 Fuel Vent CLEAR
 Static Port..... CLEAR
 General Condition..... CHECK

RIGHT WING

Wheel/Brake CHECK
 Landing Gear CHECK
 Water Drain Holes CLEAR
 Door Hinges..... SECURE
 Bolts/Safety Nuts SECURE
 Flaperon CHECK/MOVEMENT
 Wing Tip/Lights..... CHECK
 Pitot Tube..... CLEAR/COVER REMOVED
 Leading Edge CHECK

NOSE SECTION

Windshield CLEAN
 Oil level CHECK
 Coolant Level..... CHECK
 Exhaust Pipe VERIFY SECURE
 Cowling..... SECURE
 Spinner..... SECURE
 Propeller..... CHECK
 Air Inlets CLEAR
 Gascolator SAMPLE FUEL
 Gascolator VERIFY CLOSED
 Oil Breather Line CLEAR
 Landing Light SECURE
 Nose Landing Gear CHECK
 Wheel & Tire CHECK
 Shock Absorber..... CHECK FUNCTION

LEFT WING

Leading Edge CHECK
 Wing Tip/Lights..... CHECK
 Flaperon CHECK/MOVEMENT
 Door Hinges..... SECURE
 Bolts/Safety Nuts SECURE
 Water Drain Holes CLEAR
 Landing Gear CHECK
 Wheel/Brake CHECK

FINAL WALK AROUND

Wheel Chocks REMOVED
 Fuel Cap..... SECURED
 Oil Door SECURED
 Fuel Sump..... CLOSED

BEFORE START

Passenger Brief..... COMPLETE
 Papers/AML CKD
 Fuel Quantity ()PLN, () ONBOARD
 Emergency Equipment ON BOARD
 BPRS Pin..... REMOVED
 Takeoff Brief COMPLETE
 Doors CLOSED&LOCKED

ENGINE START

Parking Brake SET
 Fuel Valve OPEN
 Master Switch..... ON
 Avionics Switch..... ON
 NAV Lights ON
 Gen Fail Light..... ON
 Choke..... AS REQD
 Prop area..... CLEAR
 Throttle Lever..... Open 1/2in
 Oil Pressure AVAILABLE
 Ignition Switch ON
 Starter ENGAGE
 Throttle 2000RPM
 Oil Pressure ()GREEN
 Choke..... CLOSED
 Engine Gauges..... GREEN
 Gen Fail Light..... OFF

BEFORE TAXI

Flaps () RQRD, SEL, IND
 Trim..... NEUTRAL
 Flight Controls..... CHECK
 Avionics/ADSB..... SET
 Weather OBTAIN

ENGINE RUN-UP

Parking Brake SET
 Doors LATCHED
 Choke..... CLOSED

Throttle 4000 RPM
 *increase RPM slowly to assure brakes properly set
 Gen Fail Light..... OFF
 Voltage () GREEN
 Ignition Switch CHECK R & L
 Max Drop 300
 Max Difference 150
 Ignition Switch..... BOTH
 Engine Gauges CHECK

Throttle..... IDLE then 2000 RPM
 Fuel Pump ON
 BPRS Pin REMOVED
 Parking Brake..... OFF

BEFORE TAKEOFF

Takeoff Configuration CKD / FLAPS 1
 Fuel QTY () MIN, () ONBOARD
 Fuel Valve OPEN
 Lights..... SET
 Runway..... (), () VERIFIED

AFTER TAKEOFF (500' AGL)

Flaps.....UP
 Climb PowerSET
 Engine Gauges GREEN
 Cruise Climb 76 KIAS

CRUISE

Fuel Pump OFF
 Cruise Power.....SET
 Engine Gauges GREEN
 LightsSET

DESCENT/APPROACH

Weather OBTAIN
 AltimeterSET
 Approach Brief..... COMPLETE
 LightsSET
 Engine Gauges GREEN
 Parking Brake..... OFF
 Seat Belts SECURE

BEFORE LANDING

Landing Gear..... DOWN/WELDED
 Flaps..... () SET
 Approach..... STABLE

AFTER LANDING

Flaps.....UP
 Transponder AS REQD
 LightsSET
 Trim NEUTRAL

SHUT DOWN

Green Elec Switches OFF
 Throttle..... IDLE
 Ignition Switch..... OFF
 Aircraft Time..... RECORD
 Avionics Switch OFF
 Master Switch OFF
 BPRS Pin INSERT
 Fuel Valve..... CLOSED

LEAVING THE AIRPLANE

BPRS Pin IN & SECURE
 Pitot Covers..... INSTALLED
 Chocks IN
 Post Flight Walk Around COMPLETE

ENGINE FAILURE IN FLIGHT

Airspeed..... 69 KIAS
 Fuel Valve OPEN
 Master Switch..... ON
 Throttle Lever..... 1/2in OPEN
 Ignition Switch ON
 Fuel Pump..... ON

IF ENGINE STARTS

Fuel pump OFF

LAND AS SOON AS PRACTICAL

IF ENGINE DOES NOT START

Radio..... MAYDAY on 121.5 or ATC

TransponderSQUAWK 7700

Fuel Valve..... CLOSED

Fuel Pump OFF

Ignition Switch..... OFF

Seatbelts/Harnesses TIGHT

Refer to "Emergency Landing" for next procedure

EMERGENCY LANDING

Seatbelts/Harnesses TIGHT
 Master Switch..... OFF
 Door..... AJAR
 Flaps AS NEEDED(+2)
 Touchdown..... TAIL LOW
 Brakes..... APPLY
 CabinEVACUATE

Refer to "Emergency Egress" for next procedure

EMERGENCY EGRESS

Engine..... SHUTDOWN
 Parking Brake ENGAGED
 Seat Belts RELEASE
 Airplane..... EXIT

PARTIAL POWER LOSS

Seatbelts/Harnesses TIGHT
 Throttle Lever..... SWEEP
 Ignition Switch CHECK SINGLE MAG
 Land..... AS SOON AS POSSIBLE

HIGH/LOW OIL PRESSURE

Throttle MINIMUM REQUIRED
 -If accompanied by **high oil temp.**, land as soon as POSSIBLE
 -If accompanied by **normal oil temp.**, land as soon as PRACTICAL

BATT OVERVOLTAGE/MALFUNCTION

Master Switch..... OFF

SPIN RECOVERY

Power..... IDLE
 Ailerons NEUTRAL
 Rudder OPPOSITE
 Elevator FORWARD

COM FAILURE

Switches, Controls, Volume CHECK
 Frequency CHANGE
 Circuit Breakers CHECK
 Headset CHANGE
 Transmission..... ATTEMPT

If unsuccessful:

TransponderSQUAWK 7600

ENGINE FIRE DURING START

Fuel Valve..... CLOSED
 Fuel Pump OFF
 Brakes ENGAGE

Once aircraft has stopped:

Starter..... KEEP CRANKING
 Throttle Lever FULL FORWARD

If flames are extinguished:

Ignition Switch..... OFF
 Master Switch OFF

If flames persist: perform Emergency engine shutdown on ground and emergency egress

EMERGENCY ENGINE SHUTDOWN

Throttle Lever IDLE
 Ignition Switch..... OFF
 Fuel Valve..... CLOSED
 Master Switch OFF

SMOKE IN THE COCKPIT

Seatbelts/Harnesses TIGHT
 Cabin Air Selector..... OFF
 Door Vents OPEN
 Land AS SOON AS POSSIBLE

ENGINE FIRE IN FLIGHT

Fuel Valve..... CLOSED
 Fuel Pump OFF
 Cabin Air Selector..... OFF
 Throttle Lever FORWARD

After the engine stops:

Ignition Switch..... OFF
 Land IMMEDIATELY

*Refer to "Emergency Landing" for next procedure

COCKPIT FIRE IN FLIGHT

Cabin Air Selector..... OFF
 Battery Disconnect Switch..... OFF
 Master Switch OFF
 Fire Extinguisher..... ACTIVATE
 Door Air Inlets OPEN
 Green Elec Switches OFF
 Land AS SOON AS POSSIBLE

BPRS DEPLOYMENT (Available at 330')

Seatbelts/Harnesses TIGHT
 Airspeed MINIMUM POSSIBLE
 Ignition Switch..... OFF
 Activation Handle PULL
 After Deployment
 Fuel Valve..... CLOSED
 Fuel Pump OFF
 Master Switch OFF
 ELT ACTIVATE
 Seat Belts TIGHTEN
 Loose Items..... SECURE

Assume emergency landing body position.

After the impact, break out of the windows to exit if doors are jammed.

LOST ELEVATOR CONTROL (LANDING)

Trim Circuit Breaker RESET ONCE
 Flaps +2
 Trim SET 60 KIAS
 Throttle..... AS REQUIRED FOR GLIDE ANGLE