

## E-Flite UMx Sbach 342 Installation Instructions

### Required Items:

1. E-Flite UMx Sbach 342, 2S LiPo battery, light kit **\*\* (switched version also requires the transmitter)**
2. Razor knife with new blade, small screw driver with round shaft
3. Clear Cellophane tape

### Steps:

1. Remove the battery compartment cover. Locate the seams along the fuselage turtle back between the upper and lower halves and determine where to cut the decal and cellophane tape. Using the razor knife, slide the blade about 1mm between the RIGHT hand fuselage half and carefully cut the cellophane tape from back to front, to include the back of the turtle back. Using the LEFT side tape as a hinge, flip up the fuselage half to expose the AR6400 and wires. There is no need to cut the tape on both sides of the fuselage. Do not to slide the knife too deep into the fuselage and avoid cutting the foam. **\*\*For the switched version, remove a small area of foam under the bottom forward portion of the canopy to accommodate the PCB (fine sandpaper, sharp razor knife, of very low temp pencil solder wand). The PCB will mount on the raised area between the battery compartment and the AR6400 and secured with double sided tape, low temp hot glue, or Velcro.**



**\*\*Switched version only=>**

2. Locate the open JST X-port on the AR6400. Plug the light kit into the empty 4 pin JST X-port and ensure the connector is plugged into the **left 3 pins** of the X-port. Plug the 2S LiPo to the aircraft and verify the lights are all functioning. Separate the red and green wing tip lights and the blue tail light (shortest LED lead). The white landing lights have a yellow lens and are easily recognizable. Once the lights have been identified and tested, unplug the battery from the AR6400. **When removing the LED JST from the AR6400 pull GENTLY on the CONNECTOR HOUSING; DO NOT pull by the wires.**

**\*\* For the switched version, the LED lights must be plugged into the LEFT 3 pins of the AR6400. Unlike the unswitched version, the switched version requires the transmitter to be on (bound to Rcx) to test the lights. The AR6400 X-port is controlled by channel 5 (Gear Switch). Ensure your transmitter is programmed to control channel 5 and verify the ATV is set to 100%. There is a small cut-out on the PCB for the RED status indicator light. A flashing red light means the system has power but no signal is present to turn on the lights. A steady red light means there is power to the PCB and a valid signal is present (lights ON). If there is a steady red light no matter the switch position (on/off) and the lights are not working, the LED's are most likely plugged into the wrong side of the X-Port or the transmitter program is not set correctly.**



3. Route the blue tail light along the left side of the fuselage and out the aft air flow exit (see above photo). Mount the LED on its side and tape the wires in place. The LED should be sitting on its side on not lying flat. Cut a slit in the air flow exit and push the LED wire in the slit. Tape the LED wires on the fuselage aft of the exit hole.



4. Route the red, green and white LED's out the bottom of the fuselage, through the access hole just in front of the AR6400.



5. To keep the wires neat, CAREFULLY cut the small pieces of clear tape holding the AIL servos in place; DO NOT cut the servo wires. Route the red LED to the LEFT wing tip, place in the servo wire channels, and once in place, tape the wires in place. Be careful not to bow or warp the wings while securing the wires in-place as this could affect the flight characteristics. Route a white landing light outboard of the AIL servo and tape in-place. DO NOT TAPE THE LED lens, only the wires. Using tweezers or similar tool, gently bend the LED's so they are canted slightly down a few degrees, this will also improve in-flight visibility.



Route the green and white LED's to the RIGHT wing tip as described above, and once in place, tape the wires in place. DO NOT TAPE THE LED lens, only the wires. Using tweezers or similar tool, gently bend the LED's so they are canted slightly down a few degrees, this will also improve in-flight visibility.



6. Once all of the wires and LED's are installed, plug the battery into the power connector and verify the LED's are in their correct locations and working; unplug the battery. Place the canopy deck back on the fuselage and secure with tape.
7. Range check your aircraft before flying. Test fly the aircraft and become comfortable with its flying qualities in the daytime before flying at night. If not accustomed to flying at night, start at dusk in pinky conditions, and work your way to darker conditions.



Enjoy your new *SF Design Solutions* light kit! For questions about the installation, or to provide feedback, please send an e-mail to: [sfdesignsolutions@embarqmail.com](mailto:sfdesignsolutions@embarqmail.com).