

## READ THIS FIRST – IMPORTANT SAFETY INFORMATION!

- READ ALL WARNINGS AND PRECAUTIONS ON THIS PAGE BEFORE ASSEMBLY OR OPERATION!
- WARNING: CUTTING HAZARD. Rotating and stationary ELEV-8 V2 quadcopter blades can cut skin and underlying tissues. Stay away from a powered ELEV-8 quadcopter; never become complacent during operation.
- WARNING: ENTANGLEMENT HAZARD. Secure long hair and loose clothing or jewelry when building, testing, and operating your ELEV-8 V2 quadcopter to avoid entanglement with motors.
- WARNING: EYE HAZARD. Always wear eye protection when assembling, soldering, operating, or repairing your ELEV-8 V2 quadcopter.
- Review and abide by the Academy of Model Aeronautics “National Model Safety Code” and “Utilizing Failsafe, Stabilization, and Autopilot systems.”
- Customer agrees to fly at Academy of Model Aeronautics (AMA) approved flying fields, maintaining insurance through their AMA membership.
- Inform yourself of and follow all current federal, state, and local laws regarding the use of hobby RC aircraft in the area where you plan to operate your ELEV-8 V2 quadcopter. Review the FAA’s rules in their entirety; you are responsible for following them.
- An ELEV-8 V2 quadcopter assembled and used as directed in in this document is a teleoperated hobby model aircraft and does not constitute the use of an autonomous Unmanned Aircraft (UA). Modifying your ELEV-8 V2 quadcopter to function autonomously is not supported, recommended, or endorsed by Parallax Inc. If you choose to modify your ELEV-8 V2 quadcopter to function autonomously, you do so entirely at your own responsibility and risk.
- This kit is not for beginners. Advanced mechanical skill is required for building and flying an ELEV-8 V2 quadcopter. RC aircraft experience is highly recommended.
- Flight controller, RC transmitter/receiver, LiPo batteries, balance charger, and low-voltage alarm required, not included; use your choice at your own risk.
- Follow the assembly instructions carefully; incorrect assembly of your ELEV-8 V2 quadcopter could cause risk of catastrophic equipment failure, personal injury to you or others, and property damage.
- For every transmitter used, perform a range check of the radio link between the RC transmitter and RC receiver without the propeller blades installed.
- WARNING: Lithium-Ion Polymer (LiPo) batteries are volatile. Failure to understand and abide by all safety instructions and warnings for your battery/charger may result in fire, personal injury and damage to property. Always disconnect the battery when not in use.
- Store your ELEV-8 V2 quadcopter and its radio controller out of reach of children, pets, and those who do not know how to use them safely.
- Only operate your ELEV-8 V2 quadcopter in an area with no people, unsecured pets, or livestock, which can be harmed by contact with rotating blades. For example, children and dogs may try to jump and catch a flying quadcopter, or may run to investigate one that has just landed.
- Only operate your ELEV-8 V2 quadcopter outdoors and away from crowded areas. All observers should stand a safe distance *behind* the operator.
- Only operate your ELEV-8 V2 quadcopter in an environment where you can maintain unobstructed visual contact with it. Do not operate at night, or where there is fog, smoke, or dust that could limit visibility.
- Keep your ELEV-8 V2 quadcopter dry! Do not submerge your ELEV-8 V2 quadcopter or operate it in rainy or damp conditions. Beware of sprinklers and of landing in wet vegetation.
- Check the wind speed before flying your ELEV-8 V2 quadcopter. Even a light breeze can make flying difficult for beginners. No one should fly in high winds.

**DISCLAIMER OF LIABILITY: PARALLAX INC. IS NOT RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES AND PERSONAL INJURIES, INCLUDING THAT TO LIFE AND HEALTH, RESULTING FROM THE CUSTOMER’S APPLICATION AND USE OF ANY PARALLAX INC. PRODUCTS. YOU, THE CUSTOMER, ASSUME FULL AND UNLIMITED RESPONSIBILITY FOR ALL CUSTOMER ELEV-8 V2 QUADCOPTER APPLICATIONS AND USES.**

## ELEV-8 Quadcopter V2 – No Flight Controller Kit Assembly Instructions

1. Read the Important Safety Information on the other side of this paper! Please!
2. Go to <http://learn.parallax.com/elev-8> and click on Assembly Instructions.
3. Inventory each bag in your ELEV-8 V2 Quadcopter – No Flight Controller kit using the Bill of Materials below. If you are missing any parts, contact [sales@parallax.com](mailto:sales@parallax.com) directly for assistance. (Some items are small sub-kits with parts not listed separately. Parts and quantities subject to change without notice.)

| ELEV-8 Quadcopter V2 - No Flight Controller (#80202) |     |                                  | ELEV-8 V2 Hardware Kit Contents (#80060) |     |                                | ELEV-8 V2 Electronics Kit Contents (#80070) |     |                                    |
|--|-----|----------------------------------|--|-----|--------------------------------|---|-----|------------------------------------|
| Part #   | Qty | Description                      | Part #                                   | Qty | Description                    | Part #                                      | Qty | Description                        |
| 700-10003  | 1   | Safety Glasses                   | 700-00014                                | 8   | Standoff, #4-40 x 1/8"         | 450-00050                                   | 3   | 3.5mm Bullet Connector, 10 Pack    |
| 721-80000  | 4   | 1045C (CCW) Propeller            | 700-00024                                | 20  | Locknut, #4-40                 | 452-00088                                   | 2   | Blue EC3 Connector Pair w/ Bullets |
| 721-80001  | 4   | 1045CR (CW) Propeller            | 700-00059                                | 16  | Internal-Tooth Lock Washer, #4 | 750-00061                                   | 15' | 16 AWG Silicone Wire, Blue         |
| 80050  | 1   | ELEV-8 V2 Airframe Kit           | 700-00093                                | 12  | Zip Tie, 4"                    | 750-90008                                   | 4   | 1050 Kv Brushless Motor            |
| 80060  | 1   | ELEV-8 V2 Hardware Kit           | 700-00106                                | 1   | Loctite 242                    | 750-90009                                   | 4   | 30A Electronic Speed Controller    |
| 80070  | 1   | ELEV-8 V2 Electronics Kit        | 710-00002                                | 8   | Machine Screw, #4-40 x 1"      | 800-00006                                   | 1   | HXT-3.5mm Power Breakout Cable     |
| ELEV-8 V2 Airframe Kit Contents (#80050)             |     |                                  | 710-00006                                | 4   | Machine Screw, #4-40 x 1/2"    | 800-00023                                   | 30" | Heat-shrink Tubing, 3/16"          |
| Part #   | Qty | Description                      | 710-00036                                | 20  | Machine Screw, #4-40 x 3/8"    | 800-00080                                   | 5   | Servo Cable, 8"                    |
| 120-00008  | 1   | Chrome Sticker                   | 710-00037                                | 4   | Machine Screw, #4-40 x 1 1/2"  |   |     |                                    |
| 721-80002  | 1   | Flight Controller Mounting Plate | 710-00039                                | 16  | Machine Screw, M3-0.5 x 6mm    |   |     |                                    |
| 721-80003  | 2   | Chassis Plate                    | 710-00042                                | 8   | Machine Screw, #4-40 x 1 1/4"  |   |     |                                    |
| 721-80005  | 4   | Motor Mount Top & Bottom Pair    | 712-00002                                | 4   | Metal Washer, #4               |   |     |                                    |
| 721-80007  | 4   | Landing Gear                     | 712-00010                                | 16  | Saddle Washer, 3/4"            |   |     |                                    |
| 721-80010  | 1   | Flight Controller Cover Plate    | 713-00001                                | 8   | Standoff, #4-40 x 5/8"         |   |     |                                    |
| 730-00060  | 4   | Blue Aluminum Boom               | 713-00002                                | 4   | Standoff, #4-40 x 1 1/4"       |   |     |                                    |
|  |     |                                  | 713-00007                                | 4   | Spacer, #4 x 1/2", Aluminum    |   |     |                                    |
|  |     |                                  | 713-00019                                | 8   | Spacer, #4 x 1/8", Nylon       |   |     |                                    |
|  |     |                                  | 725-00067                                | 1   | 1.5mm Hex Key                  |   |     |                                    |
|  |     |                                  | 900-00021                                | 2   | Hook & Loop Strap              |   |     |                                    |

**Revision History:** V1.1: corrected description of 721-80000 and 721-80001.