

# Assembly Instructions

## Palm Beach Beater



Assembly Video:  
[https://youtu.be/9H3\\_R9Wq0oU](https://youtu.be/9H3_R9Wq0oU)



### Kit Contents:

#### Chassis Only Kit

- **Chassis Parts**
  - Sidewall (UHMW), Qty 2
  - Front Wall
  - Rear Wall
  - Bottom Plate
  - Lid
  - Drive Motor Plates, Qty 2
- **Hardware**
  - 4-40 Nutstrip, Corner, Qty 4
  - 4-40 Nutstrip, "2x1", Qty 1
  - BSC 4-40 x 7/16", Qty 6
  - BSC 4-40 x 1/4", Qty 13
  - BSC 6-32 x 1/4", Qty 4
  - BSC M2 x 4mm, Qty 4 (Repeat Motors)
  - Phillips Plastite Screws, Qty 4
  - FSC M2 Screws/Nuts, Qty 2

#### Optional Items Not Included but Recommended

- FS2A Receiver
- Palm Power 3s 450mAh or 3s 300mAh Battery

#### Additional Items Included with Guts Kit

- FingerTech 1 Pound Beater Bar Assembly
- 2600KV 1 Pound Beater Electronic Kit w/ 153mm belt.
- Repeat 16mm Brushed Motors, Qty 2
- Repeat Dual Brushed Ant ESC
- Twist Hubs, 0.75" x 4mm
- Foam Wheels 0.75" x 2.25"
- Fingertech Mini Power Switch
- JST Female Connector with Pigtails



### *Pro Tips:*

#### **Tools Needed for Install:**

- Hex Wrench, 1/16"
- Hex Wrench, 5/64"
- Hex Wrench, 0.050"
- Phillips Screwdriver
- Needlenose Pliers

- After assembly, go thru and Loctite all the chassis screws one by one. If they vibrate out you'll have a rough day.
- Solder the wires on the switch before you install it on the sidewall.
- Use a Dremel to make a flat spot on the weapon motor shaft to give the pulley set screw a good place to grab.

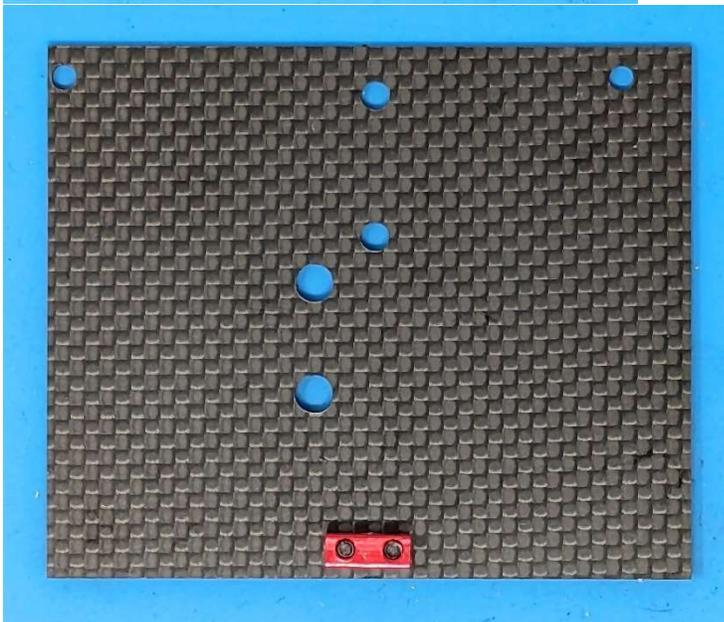
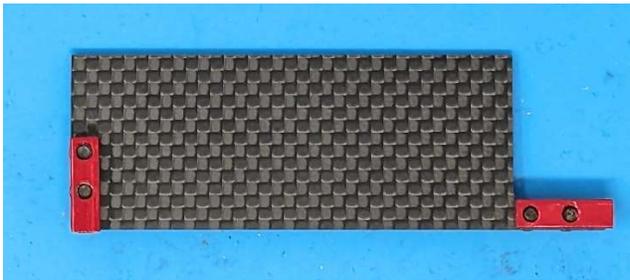
## **Assembly Instructions**

**\*\*NOTE:** Some steps of the chassis assembly will show items included with the guts kit because it's easier to install them while building the chassis. \*\*

### **Chassis Assembly:**

Make sure to leave all the screws loose during initial assembly and fully tighten at the very end.

**Step 01)** Using 4-40 x 1/4" screws add 2 pieces of corner nutstrip to front plate and 1 piece of 2x1 nutstrip to bottom plate.



**Step 02)** Using 4-40 x 1/4" screws attach front/rear plates to bottom plate.

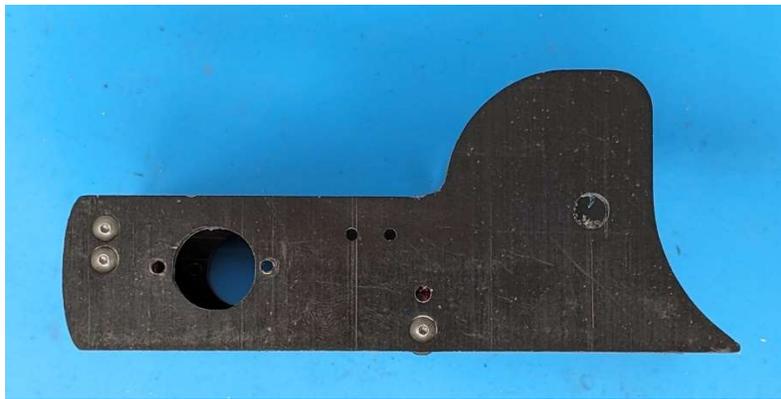


**Step 03)** Using 4-40 x 7/16" screws attach 1 piece of corner nutstrip to each sidewall. Be sure to note orientation. You want them on the inside of the walls with the threaded hole facing up. The top hole is for the lid.



**Step 04)** Attach walls to carbon fiber plates, still leaving things loose for some play.

- Use 4-40 x 7/16" screws for the sidewall in the front, 1 for each side.
- Use 4-40 x 1/4" screws for the rear wall, 1 for each sidewall.

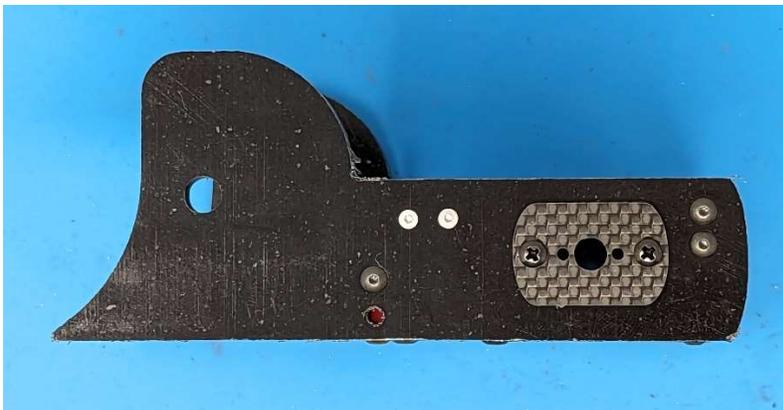


**Step 05)** Install Lid and tighten all screws.

- Install Weapon Motor Mount using 6-32 x 1/4" Screws from bottom. (**Mount included in Beater Electronics kit, not included with Chassis Only Kit**)
- Install Fingertech Switch using M2 screws/nuts (**Switch included with Guts Kit, not included with Chassis Only Kit**)
- Install Lid using (2) 4-40 x 1/4" Screws at the rear and (2) 6-32 x 1/4" screws at the front on the weapon mount. The large hole will line up with the power switch for access.
- Once the lid is on get everything aligned well and tighten down all the screws starting with the 7/16" sidewall screws then working your way around.



**Step 06)** Install Drive Motor Plates using the 4 Plastite Phillips Screws. Two for each side.



**Guts Kit Only from this step forward.**

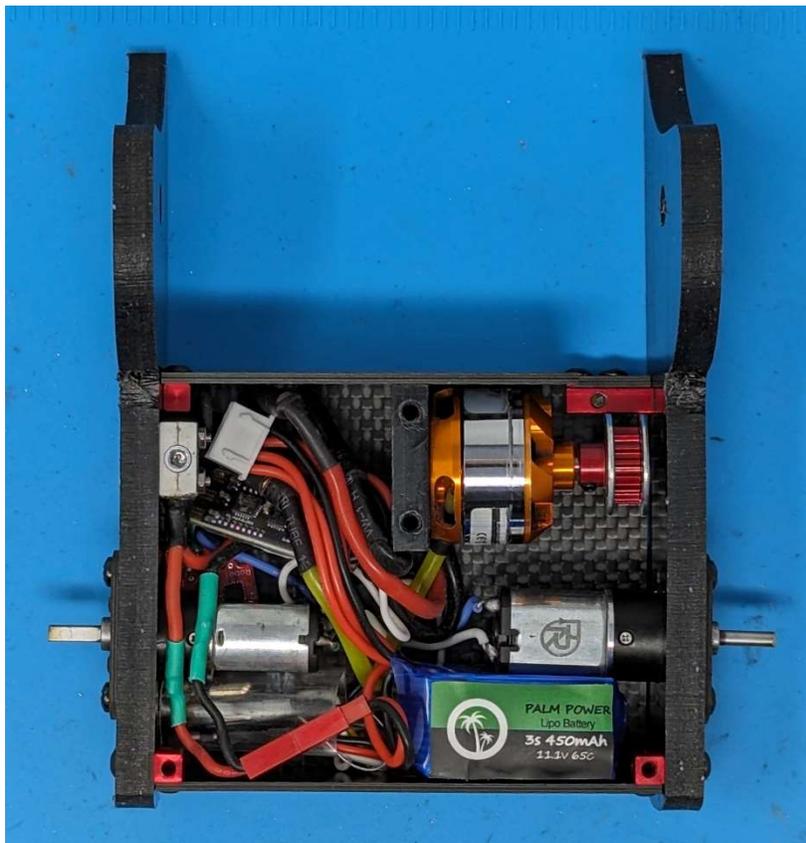
**Step 07) Electronics and wiring.**

Install internals as shown. The ESCs go up next to the power switch. The PWM connectors go under the drive motor wiring to the receiver behind the left motor. Battery goes behind the right motor.

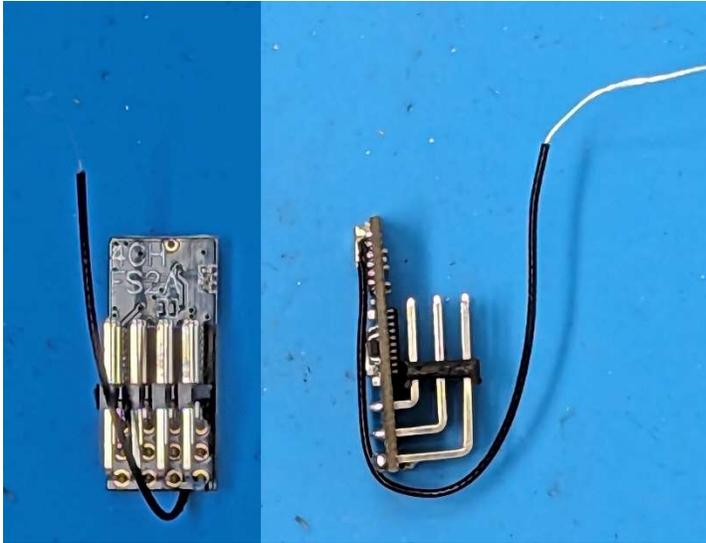
**Note** that the pictures are the original Nano ESC for drive which has been updated to the Repeat Dual Brushed Ant ESC. We prefer to cut off the XT30 connector on the power side and use a PDB setup.

You'll need to solder the included JST pigtail to the power switch. Solder the red wire to the top terminal on the switch. Solder the included loose red wire to the bottom terminal of the switch. This will be the positive lead to your harness. The black wire from the JST pigtail will be the negative lead to your harness. Solder your harness leads together as you prefer, we like to use a PDB.

**\*\*Note:** The extra holes in the bottom plate are for wire management if you wanna use a zip tie. We generally don't use one.



If using an FS2A we prefer to install it “backwards” as shown to save space.



#### Step 08) Beater Bar Install

- Install the screws and washers to be the teeth. Make sure to use Loctite and tighten them **ALL THE WAY** down. Clearance is tight.
- Install the bearings and pulley/Delrin flange onto the bar.
- Loop the belt over the pulley on the weapon motor then drop in your beater bar and slide the deadshaft thru. Then tighten the locknut.

Now go throw your hubs/wheels on, double check everything and toss it in your test box.

