

Chopper Charger

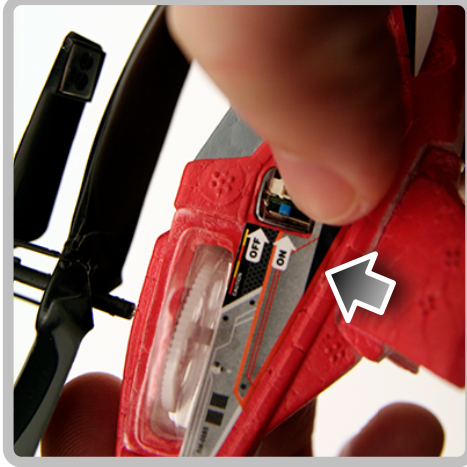
The Problem

- Many steps
- Controls are delicate and hard to manipulate
- System status unclear



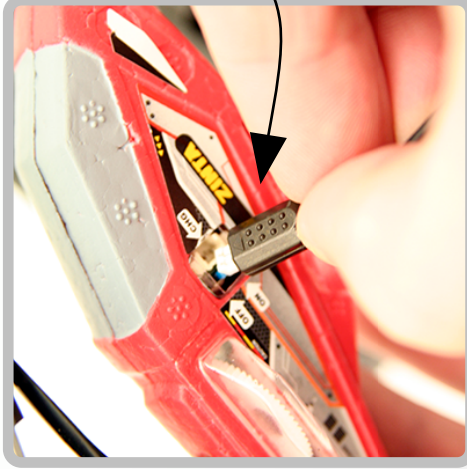
1 Open Compartment

Cord could be accidentally ripped out when removing



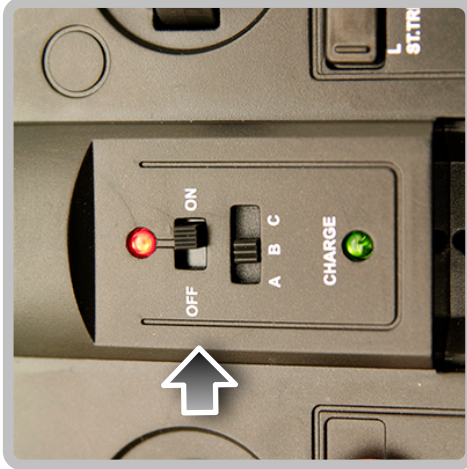
2 Turn Chopper Off

Very small control. Not obvious that it should be "off" to charge



3 Insert Plug

Difficult to see what direction pins go. Feels like chopper may break.



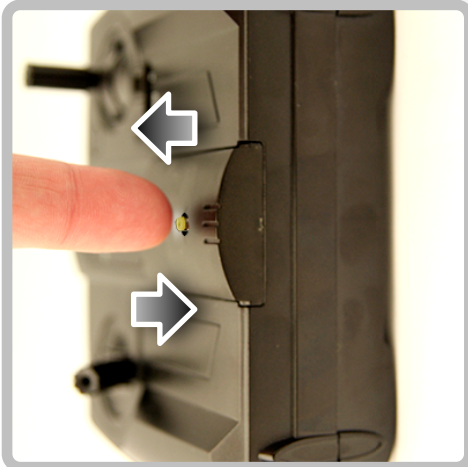
4 Turn Switch "On"

Charge light turns green when charging. Light turns off when charged.

Make sure to align it correctly!

The Solution

- Less chance for breaking or losing pieces
- Supports different charging orientation
- Better feedback



1 Push to turn on charger

Pushing down on the charger is a bistable push button.



2 Place on charger

Chopper snaps into raised charger.



3 Charging

Charging begins when the plug is inserted. Light flashes red while charging, turns flashing green when charged.



4 Remove and fly!

Removing the chopper stops the charging light. Push down on the charge button to make it recess.



Inspiration: phone charger, ipod dock, camera battery charger

Jim Vogt