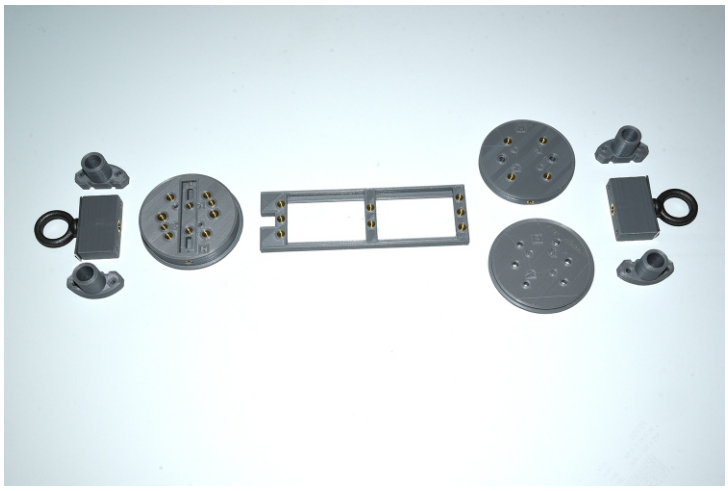
54, 65, 75mm Gen1 Hybrid Bay

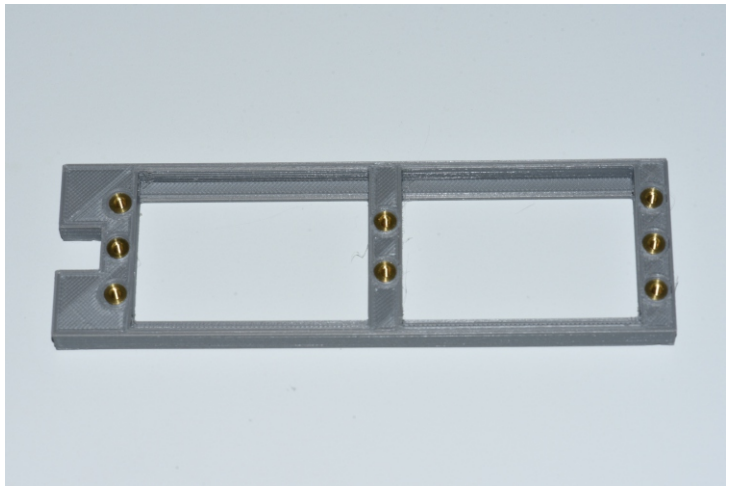
Version 1.0 - November 3rd, 2019



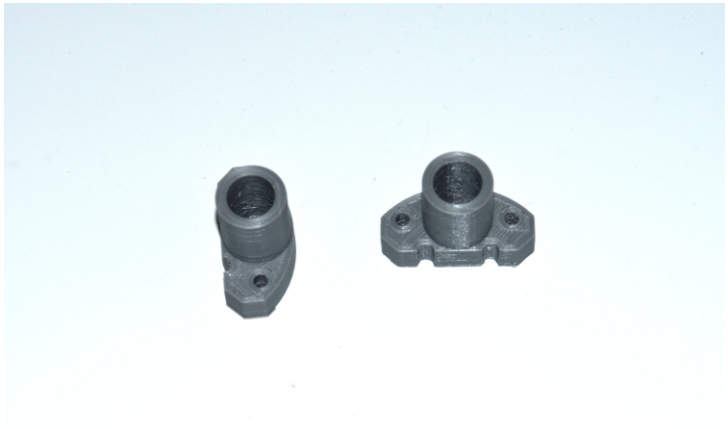
Switch End Cap

Mounting Ring

End Cap



Gen1 Hybrid Tray



Charge Canisters

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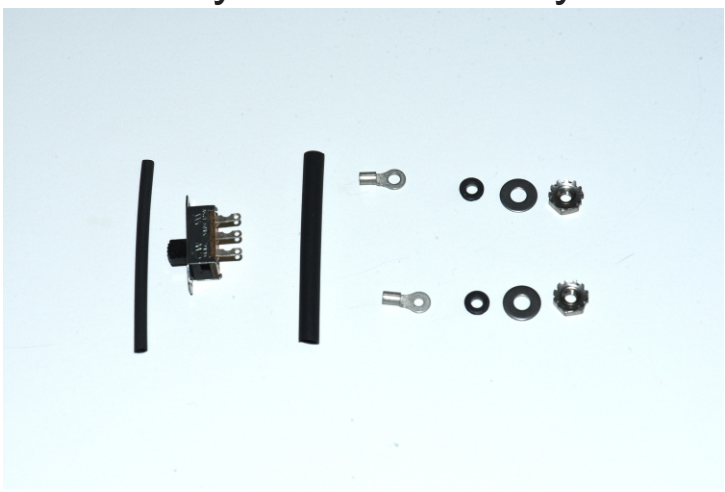
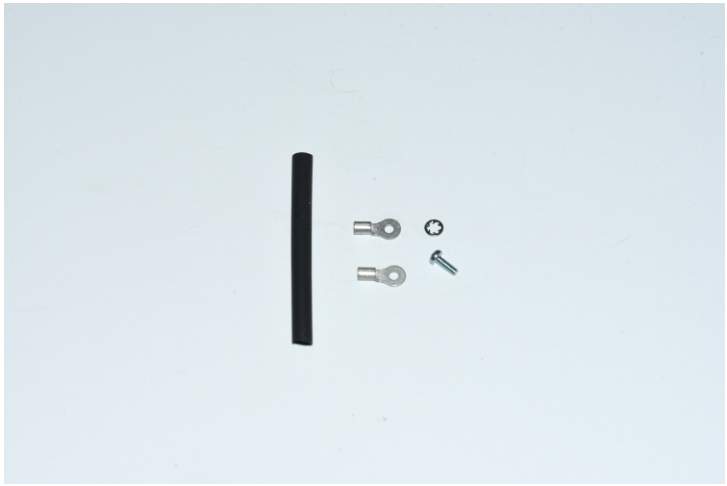
Note: eye bolt has been installed with medium thread locker compound. If the assembly is taken apart, it is important to use thread locker when re-assembling to keep eye bolt in place during flight recovery.

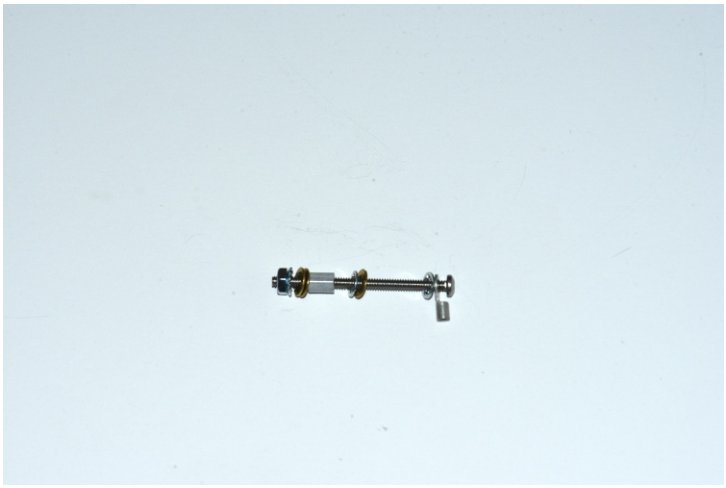
Eye Bolt Assembly



Switch, 4-40 Deployment Wire, and End Cap Hardware



2-56 Terminal Parts



Charge Connection Hardware

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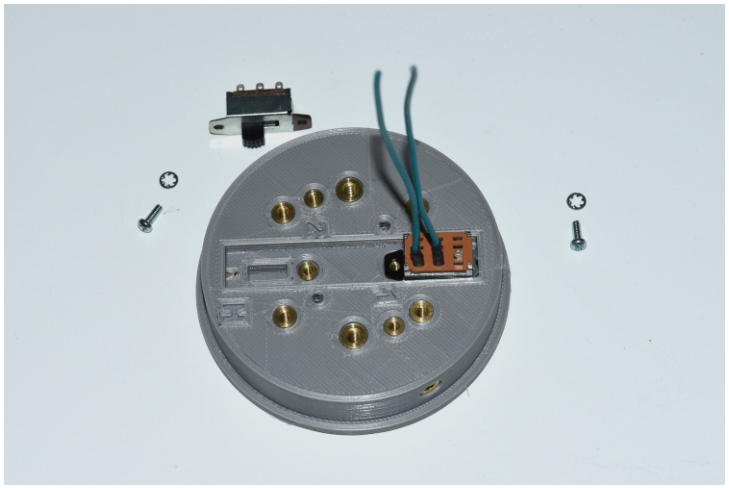

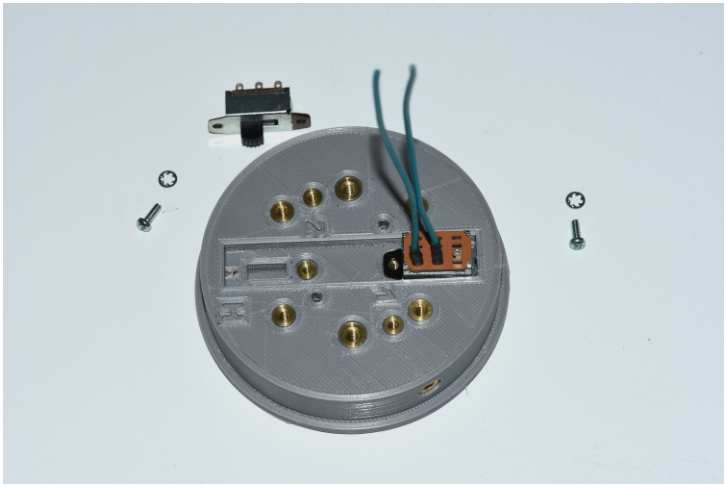

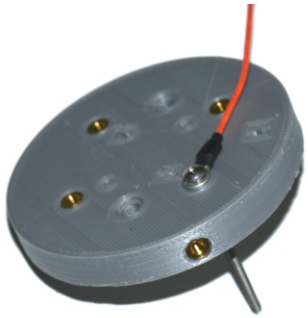

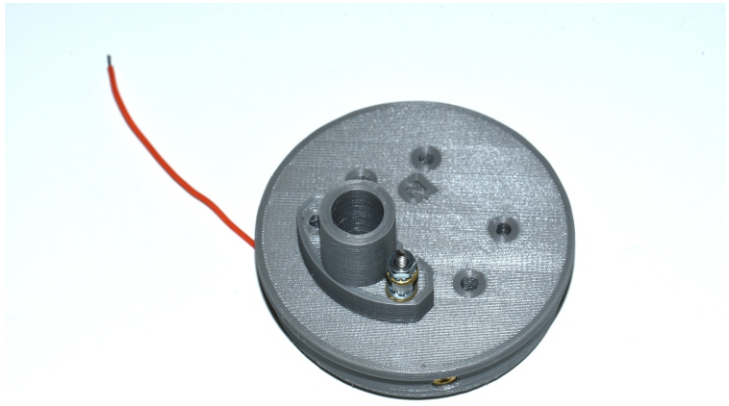

54, 65, 75mm Gen1 Hybrid Bay

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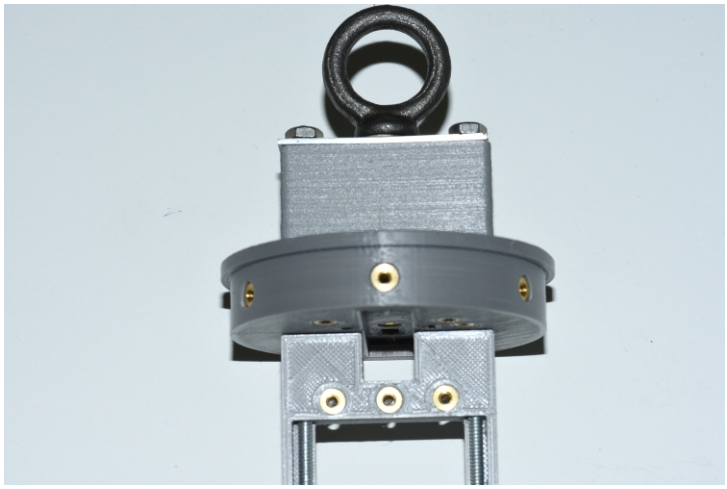
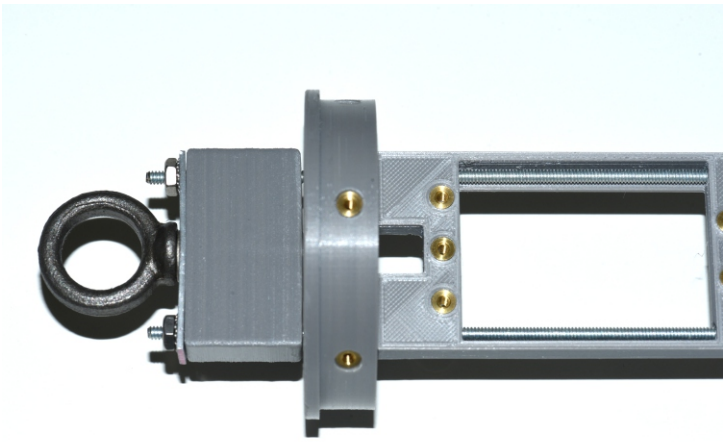
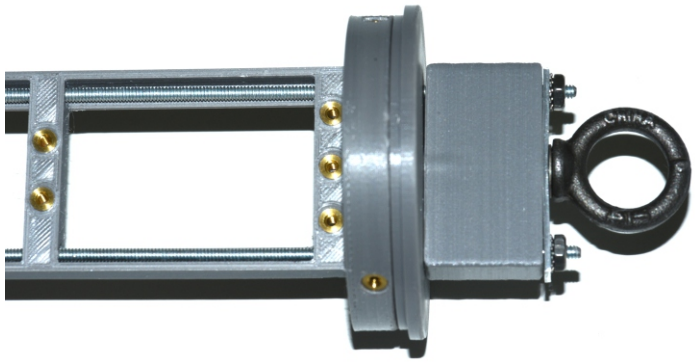




54, 65, 75mm Gen1 Hybrid Bay

Version 1.0 - November 3rd, 2019



For final assembly in bay coupler tube. Note: hardware used to mount eye bolt assembly includes a rubber sealing washer, flat washer and a KEP nut for each side of the mount.

54, 65, 75mm Gen1 Hybrid Bay

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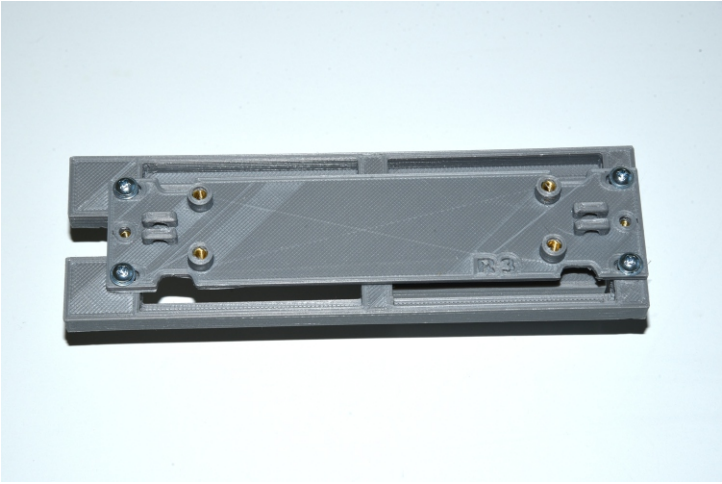
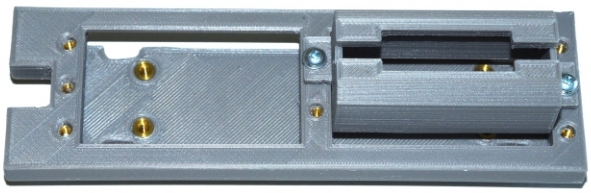
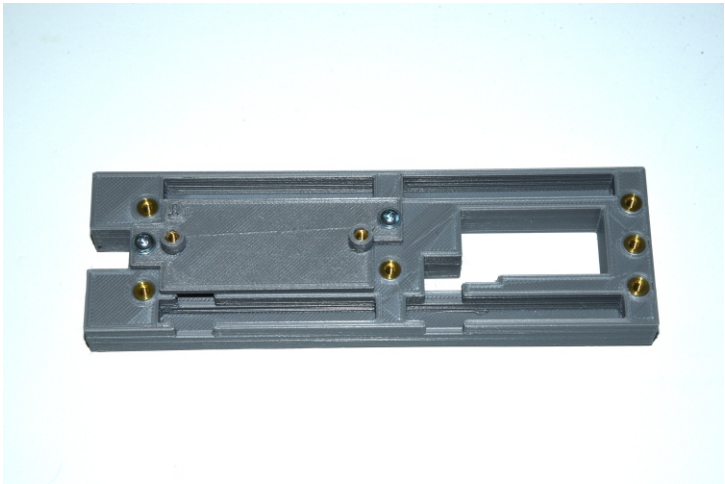


Platform Mounting



Carrier Mounting



Special Battery Holder tray
(dual LiPo version shown)

General Notes:

A carrier is a mounting for a device or battery that installs in one of the four module slots in a tray. The brass inserts are shared between the top and bottom mounting for carriers. Note that there designations on the device carriers regarding which side they mount on (”**T**op” or “**B**ottom”).

A platform is a mounting for a device that can not fit in a normal module slot. If a platform is being used in a redundant bay, any carriers must be mounted on the bottom. The special battery holder tray was developed so two platforms could be used in a redundant bay.

The arming switches are designed to be turned on by an arming screw at the launch pad once the rocket is setup on a rod or rail. The arming screw may need to be physically shortened in order for the screw head to be flush with the outside airframe. An extra arming screw is included with the bay kit.

The charge connection hardware should be assembled in the order of parts shown in the photo on page 2. The placement of lock washers, terminals, etc is designed to make all the electrical connections extremely reliable.

There is 2-56 hardware and #2 terminal lugs included with every kit. For devices that have no switch connections, the supplied hardware can be used to create tie points for ground connections. The switch end cap will have one or two 2-56 inserts available to connect wires together.

If the devices being used have switch connections, the kit includes green wire for these device connections.

Please refer to the SMT Designs Standard Color Code, Switch Preparation, and Terminal Preparation documents for additional information.

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