



Kit No. CBMD-006

Construction Detail

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Model data:

150 grams
36 Inches
190 Sq. In.
31 5/8 Inches

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This construction detail document is provided to show the differences between the original Joulebox 190 design and the MkII version. Refer to the existing construction detail document for common assembly information between the two versions.



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The Mark II horizontal stabilizer construction is the same as the previous version. The difference in assembly is the center section with the SP-2 insert and S-1B ribs that form the support for the plywood D/T post DPT-1 (not shown-see covered stab images on website for this)

S-1B 4X









PYLON SKID

Cement Line of the second seco

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The MkII right side pylon skin being assembled. Cellulose cement is recommended for smooth sanding after assembly. Orient the lipo cutout doublers as shown for installation reference in the subsequent steps.

WLON SKIN-LEFT SIDE, OUTSIDE SURFACE SHOWN

Left side pylon skin assembly. Leave the plywood timer mounting frame off until after the pylon assembly is sanded on the outside surface.

IMMING SUGGESTIONS

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Use the aft cutout doubler frame PD-3 to locate the edge of the taper sanded into the PC-2 cap

Sanded taper in PC-2

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Sanded tapers in PC-1. Aft taper edge is based on the same cutout doubler PD-3 edge used for the PC-2 marking.

PYLON SE

EXAS TIM

TIMER ROT PLATATE CUTOUT

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Cutout doublers PD-1, -2, -3 installed after PC-1 & -2 caps installed. Note the 'Vee' notch in PD-2 to give orientation to "UP"

Install the front closeout web PC-3













Install wing support saddle WM-1 using the raised tabs on the pylon sides to locate in the forward and aft direction















"Outboard" direction reference

from instructions

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Soldering the ESC battery lead wire onto the Deans Micro polarized connector plug assembly. Keep the plug halves assembled to maintain reference to polarity of the wiring.

ESC battery lead wires

Finished ESC wire solder connection joints for battery wires

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Modifying a JST equipped lipo for Deans Micro Connector plug installation. Work <u>ONE</u> lipo lead wire at a time to reduce the risk of electrical shorting during this process.

Tinned lipo lead wire soldered to the outboard side of the Deans connector plug. Match the colored wire on the ESC side for correct polarity orientation.

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Install the heat shrink tubing on the Deans connector plug lipo terminal BEFORE installing the remaining lipo lead wire. NOTE-make sure the ESC motor connector wires are insulated from contact with each other prior to the next step.

Install the remaining lipo lead wire onto the remaining Deans connector plug terminal. Cover with heat shrink tubing to isolate. NOTE-the ESC is energized at this point-be cautious.



Finished Deans Micro connector installation-note polarity match based on wire colors.

Lipo installation into the Mk II pylon-hook Velcro is installed on side of lipo not visible. The pile Velcro is visible inside the cavity adjacent to the finger hole. The two hooks provide an anchor point for a small rubber band to restrain the connector wires against the side of the lipo from an earlier version on this model. The Aeris RDT host unit shown is held to the pylon side with small pieces of Velcro. Note: this version of battery installation may vary from some Mk2 drawing information and construction manual info.



dio DT

Partial installation into the lipo cavityconnector wire tuck in easily above the battery and the balance port will tuck in

> 325mAn G8 Pro Forc 325mAh 2-Cell 25 70C Continuous/1400 Assembled in USA of US in Charge as 2-cell 120, 1934

behind the battery when installed.



325mAh 2-Cell/2S 7.4V (2.4 Wh 70C Continuous/140C Burst (22.75A/45.5A) Assembled in USA of US and foreign components

Charge as 2-cell, 12C* (3.9A) max or may cause

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Installed lipo-very neat and flush to the side of the pylon. The rubber band shown is not needed to retain the battery. To remove the lipo poke your finger through the hole on the far side and break the lipo away from the Velcro, then angle out as done for installation. There is room to slide the battery aft if needed to fine tune the Center of Gravity on the model. rad