

Link Maker 9000



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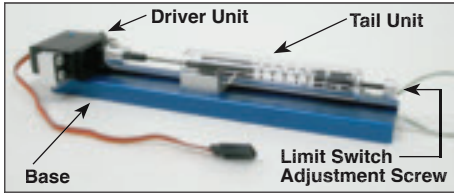


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## Instructions for the Link Maker 9000



**Thank you for purchasing the Link Maker 9000. Possibly the COOLEST tool you can get for this hobby. Your fingers will thank you later.**

- The LM9K is designed to operate on voltages from 4.8 to 9 volts DC and draws up to 1.5 amps.
- The speed of the unit is determined by the voltage applied.
- Are you in a big hurry? Use a fully charged 2 cell LiPo or a regulated DC power supply set to 9 volts.
- A power supply was not included because most everyone has a 4.8 to 6.0 volt receiver pack laying around or even a 2 cell 7.4v LiPo.
- Car guys could use a 6-7 cell stick pack. Adapters can be made quite easily or you could use one of the "multi" adapters that are available.
- A JST (sometimes called BEC) connector works great if you plan on making/adapting a LiPo or NiCd/NiMh stick pack. OBSERVE Polarity or you will destroy the unit and completely void the 1 year warranty.
- Altering the provided polarity protection connector will also void the warranty.
- Each heli manufacturer uses a slightly different size of ball link so we will need to calibrate the limit switch for the links you are using. The procedure will need to be done anytime you switch brands of ball links.
- Most manufacturers provide the inside-inside measurements for the required length of the assembled links. Some manufacturers will use center-center or even outside-outside measurements. For center-center and outside-outside measurements you will simply need to make a couple of measurements.



### Center-center

Measure the distance from the center of the ball link to the bottom of the link using the scale on the base (see fig. 1)

Take that distance and multiply x2. That will be your starting point for the tail unit during calibration.

### Outside-outside

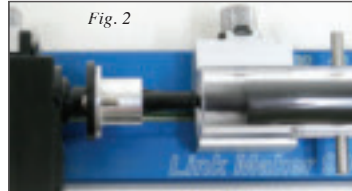
Measure the length of the ball link using the scale on the base and multiply x2. That will be your starting point for the tail unit during calibration.

**Thanks again for purchasing this fine product from Model Avionics.**

**See a video tutorial of the Link Maker 9000 at [www.modelavionics.com](http://www.modelavionics.com)**

## Step 1: Calibration

- Apply power.
- For inside-inside measurements, slide the tail unit to the first hash mark on the base (ZERO) and gently tighten pressure plate thumb screw. (If the heli manufacturers lengths are not inside-inside, then use the measurement calculated from the previous procedure.)
- Loosen pressure plate and slide the driver unit to the left end of the base plate.



- Insert a ball link into both the driver and the tail unit. Slide the driver unit forward and make the 2 ball link ends touch (see fig. 2). Push the driver unit forward until the point where the 2 links are touching becomes flush with the tube opening.
- Lock the driver unit in place with the thumb screw. No need to be a gorilla with it. This position will not move unless you change ball link brands.
- We are now going to adjust the limit switch by monitoring the Green LED.

### LED Status

- Green LED ON.
- Slowly turn the limit switch adjustment screw clockwise until the LED turns OFF and then back it out slowly until the LED comes back ON. Stop.
- Green LED OFF
- Slowly turn the limit switch adjustment screw anti-clockwise until the LED comes ON. Stop.

***That completes the calibration for your unit. Just remember to do this each time you change brands of links.***

## OK let's make some links!!!

### Step 2: Loading the machine

- Per your heli instructions, gather 2 ball links and the recommended threaded rod and twist each ball link onto the respective end with just a turn or 2 so they are started on the threaded rod.

***WARNING: Choose the correct length rod to prevent damage to the ball links. Too long of a rod and the LM9K will drive the rod through the end of the ball link.***

- Referring to the graduated metric scale on the base of the LM9K, loosen the thumb screw and slide the tail unit to the measurement provided by the heli manufacturers instructions.
- Slide one end of the partially assembled rod into the tail unit first. Pull back on the slide pins to compress the spring and insert the other end into the driver unit.
- Push the tail unit slide pins towards the driver unit to verify the ball links are fully seated in the drivers.
- Green LED is off indicating the LM9K is loaded and ready to go.

### Step 3: Making a link

- Press the Blue button and the unit will start.
- The Link Maker 9000 will stop automatically when the link rod length is correct and the green LED lights.
- Pull the tail unit slide pins back and remove the finished link rod.
- Measure the rod to double check finished length. If minor adjustment is needed, use the limit switch adjustment screw. Clockwise rotation will yield a shorter overall link rod length.
- Repeat above procedure until all rods are done.