

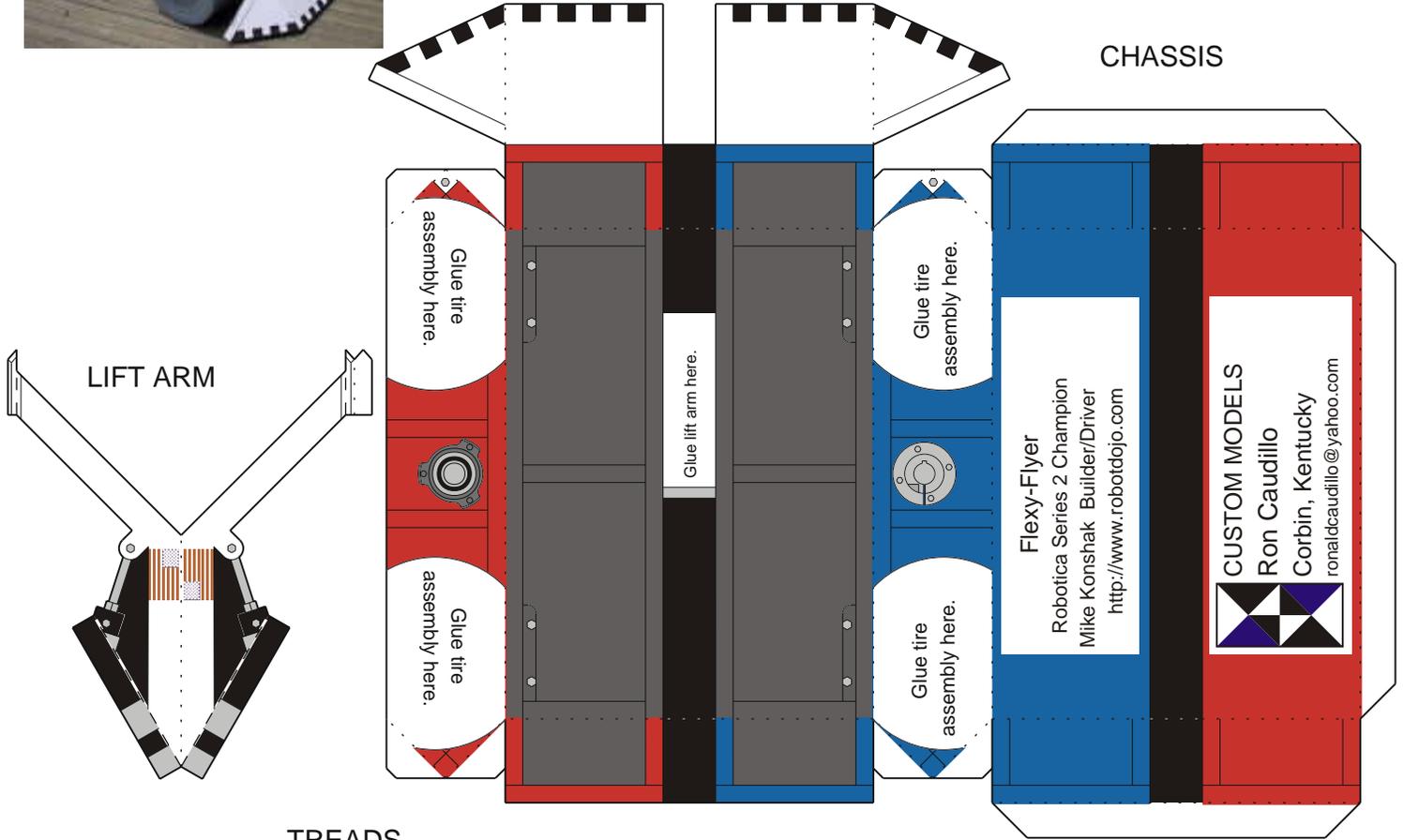
Mike Konshak's

FLEXY-FLYER

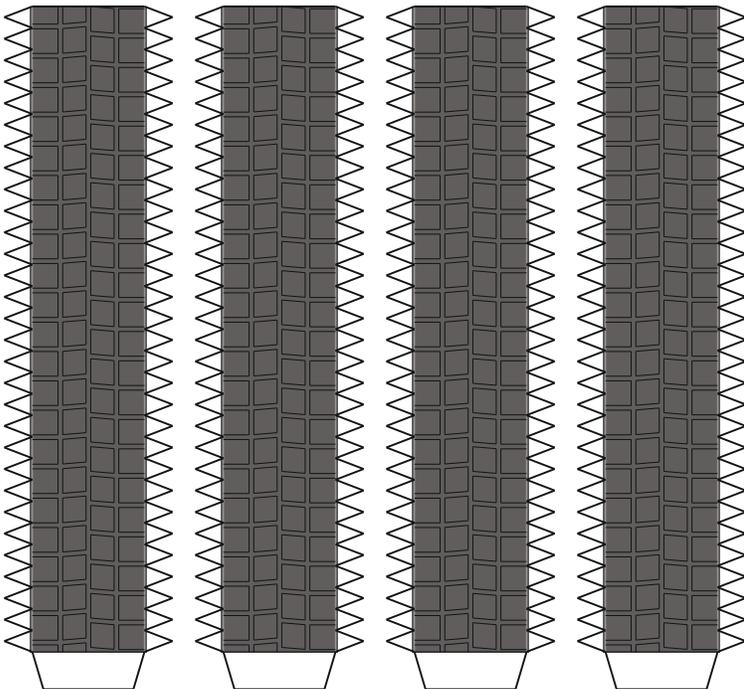
Model design by **RON CAUDILLO**



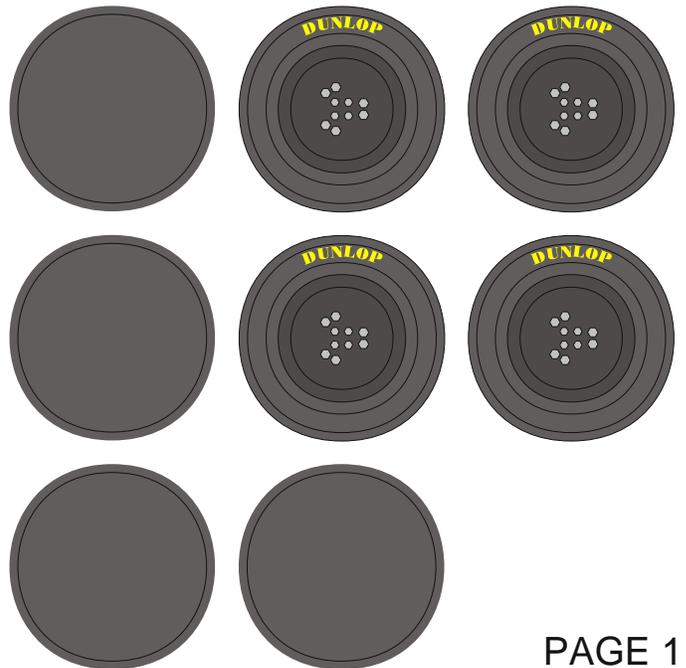
Scale: 1/10



TREADS



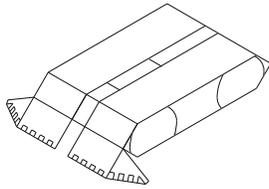
TIRES



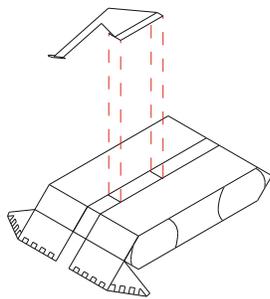
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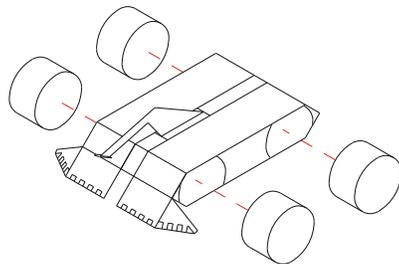
FLEXY-FLYER



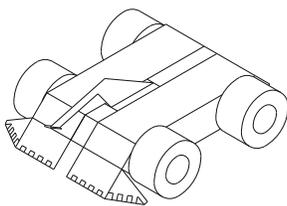
Fold up and glue the chassis together.



Fold up and glue the lift arm together. Glue this to the top of the chassis.



Roll and glue the tire treads into a cylinder. Glue the outside end to the treads. Glue the inside end to the treads. Make all 4 tire assemblies. Glue the front 2 tires in place to the chassis, making sure the model will sit straight. Glue the rear 2 tires in place, adjusting them up or down slightly to make sure the model sits straight.



The finished model of the Flexy-Flyer.



Flexy-Flyer wins the TLC Robotica series 2 championship by using the lifting arm to throw its opponent over the rails in head-to-head combat.

Flexy-Flyer was designed and built by Mike Konshak. It has a unique pivoting chassis that allows it to move smoothly over uneven terrain and obstacles. This feature allowed it to perform very well in the Robotica Labyrinth and Gauntlet challenges.

You can see more of Mike's robots by visiting his website at www.robotdojo.com

GENERAL INSTRUCTIONS FOR ASSEMBLING RON CAUDILLO'S CARDSTOCK MODELS

Cardstock model building is a fun, relaxing, and very inexpensive hobby that can be enjoyed by almost any age.. It is a great way to build models of your favorite things that are not offered in plastic kits. The development time and costs are no so great as to make the kits expensive. Once you have the pattern file, you can print out as many copies as you want for just pennies a copy. If you make a mistake during construction , no problem, just print out another one!

Print the model onto 8-1/2" x 11" 67 pound cardstock. You can buy this from a printing business or an office supply store. Wal-mart sells 110 pound cardstock, but this is usually too thick for the smaller parts. I only use 110 pound cardstock for really large parts that have little or no internal support.

For PDF files, obtain and install on your computer a copy of the Adobe Acrobat reader software. This can be downloaded for free from their website at www.adobe.com. When using the Acrobat software, make sure the paper orientation is set to portrait and the "fit to page" box is unchecked. Follow the software instructions for any problems that you may have in printing.

Print out the model on the best printer you can use. Most printers shouldn't have problems feeding the cardstock. Use a printer that has both a color and a black cartridge that are installed at the same time. This will give you a very crisp, clean, and wel defined printout.

The models are completed using pr e-assembled subassemblies. You may find it easier to cut out only the parts that are needed for a subassembly to avoid loosing parts. Cut out the parts using a small pointed pair of scissors. Use a hobby knife on smaller parts, holes, and hard to cut areas. LIGHTLY score the folds with a hobby knife or a COMPLETELY empty ball-point pen before making a fold. This will give you an easy to bend crease that will look very sharp. Use the yellow legend below for directions to fold the paper.

You c an use a fine tip black felt marker on some of the edges before gluing them. This will help hide the exposed white edges of the cardstock and give your model a very professional finished look.

Test fit the parts before gluing. Roll the cylinder-shaped parts around a small rod to pre-form the part and to help it hold its shape while gluing. Use white glue sparingly to join the pieces. Apply the glue with either a toothpick or a straightened paperclip to the tabs. This will help keep your fing not smear glue all over the printed surfaces. You may have to use tweezers to hold the pieces together for a few minutes to allow the glue to set up.

Let the joined parts dry a few minutes before adding other parts. Some of the parts are fragile and need to dry completely before adding them to the model.

Lightly spray the finished model with a clear, matte spray to protect it from moisture and humidity. Use several VERY LIGHT coats of the matte spray, allowing it to dry completely between coats. Most printer inks will bleed when wet so don't use a single, heavy spray coat.



CUSTOM MODELS

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LEGEND

—————	Cut line
- - - - -	Fold up line
.	Fold down line
—————	Detail line (do NOT cut)