

Building the Hannibal Twin 8

Start with the chassis. All pieces (C1-C6) fold over. The cross members attach at the gray rectangles on the sides of C1 and C2. The little boxes at the ends of C3-C6 are folded at 90°.

Next, build the two rear axles. Do not cut out the hubs yet. Wind/roll the axles around a thin wire or paper clip to form, then remove the wire or clip. This leaves the axles hollow.

The front axle really isn't an axle, it's supposed to be a tie rod. On some versions of the car, it had neither a tie rod nor axle between the front tires. On others, it had a tie rod. For this model, I used the tie rod like an axle. Make the same way you made the rear axles. All of the axles need to be hollow. You will also make two small spindles, which are tightly rolled paper pins that will fit inside the axles when the time comes. Next build the wheels. The wheels with the wire rims are for the front, and there are only two. There is a stack of three tires with no spokes that ends up on the rear deck of the model.

Building the rear wheels: First cut out a hub. Glue/wind this strip around the end of one of the rear axles. Next, drill a hole so that a wheel will just barely slide onto the axle on the end without the hub. Push the wheel down the axle till it is stopped by the hub. Now glue/wind another hub onto the axle just inside the wheel. Repeat this process at the other end.

Building the front wheels. First, cut a hole on the INSIDE ONLY of one of the front tires. Insert the axle into it and glue to the inside of the outer tire wall. Do the same for the other end, and let dry. When dry, cut off the tires from the end of the axles at the inside wall of the tire.

Mounting the wheels. Take a front tire and glue a tightly rolled spindle into the piece of hollow axle still inside the tire. It should look like a tire with a paper pin sticking out of the inside hub. Drill a hole in the end of one of the two front chassis arms. Insert the tire spindle through the hole from the outside of the chassis. Put a dot of glue on the end of the spindle and push the axle onto the spindle on the inside of the chassis arm. Repeat at other end. You will see that you have to bend the chassis arm out to make it fit the axle. This is correct, and is the way the car chassis was actually built. Repeat for the other side.

To mount the rear wheels, simply glue the rear axles to the two middle cross members of the chassis. Do not glue one of the axles to the rear-most cross member.

You now have a completed chassis and wheels. Here, if you want, you can design and add a scissor lift mechanism. However, the rest of these instructions assume you are building the model as is.

Building the rest of the model is pretty straight forward.

Note that the mounting points for the fenders has not been printed on the sides. This is because you should first build the whole body, then add the fenders last. Drill the holes for the fender supports where they are needed. This location will change ever so slightly with each build. There are three fender support sizes. The ½ inch long pins are for the rear fenders. The ¾ size pins are for the front fenders by the door, and the 1 inch pins are for the fender by the front wheel.

You make the radiator caps by rolling the thin yellow strips around a rolled shaft, just like the wheel hubs only smaller, then cut the shaft to length. The tiny octagonal caps go on top.

Building the seats. There is a seat support which is a rectangular tube. This goes inside at the back of the base of the seat. The white line on the seat is a valley fold. This is the part of the seat where you lose your change. This glues to the upper inside edge of the support. The circles on the seat show where the flag pole goes. The flag pole goes down into the top of middle of the front seat, and comes out through the back of the seat, not the bottom. The seat should lean back with the pole standing straight up. Do not glue the seat into place until the canopy is ready to put on. The canopy will automatically center the flag pole when connected to the windows. You will glue the whole assembly : pole and canopy) down at the same time. Nit pickers note: the part of the pole that sticks up into the air really should be pointed. Once the seat and pole are glued into place, you can cut off the tip above the canopy point and replace it with a cone of your own make. It looks fine without it. I just glued the flag to the pole as it is.

This is a right hand drive vehicle. Place the steering wheel accordingly.

The rear baggage racks are first cut out as squares, folded on the dotted lines and glued. Then cut the white area away from the rack. Fold the small end fence post to 90°. Put a dot of glue on the ends of each of the fence posts, and glue into position.

The spare tire mount. Imagine if the cross arms of the steering wheel were made of rubber, and you pushed the rim down to the ground. This is how the spare tire mount is. It is a pole, with two straps that cross at the top of the pole, but the ends are under the pile of three tires, forming a sort of pyramid skeleton, and centered inside the tires.

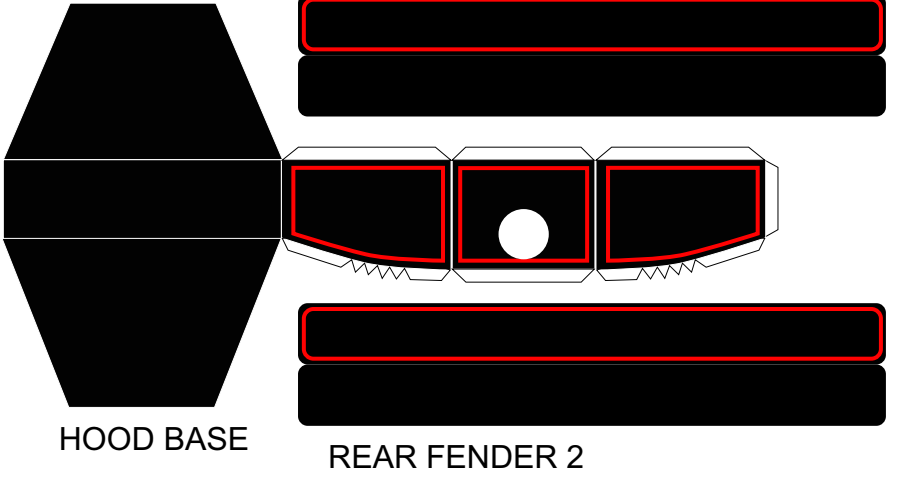
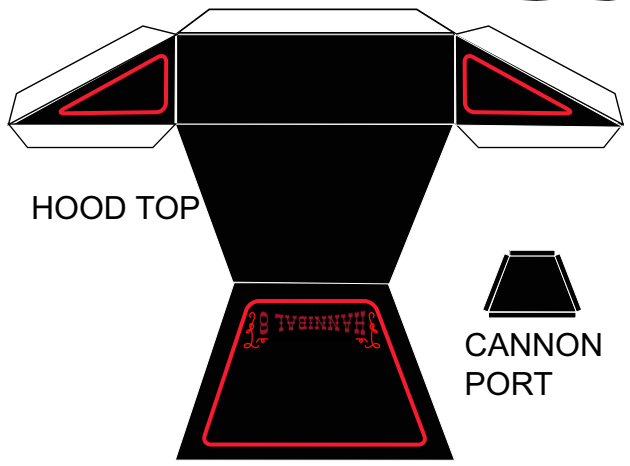
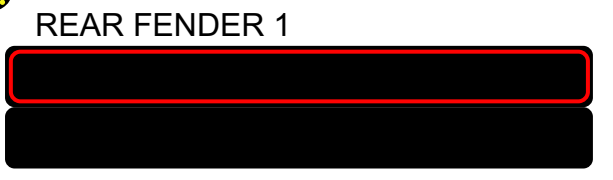
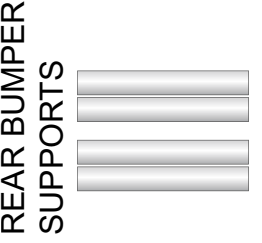
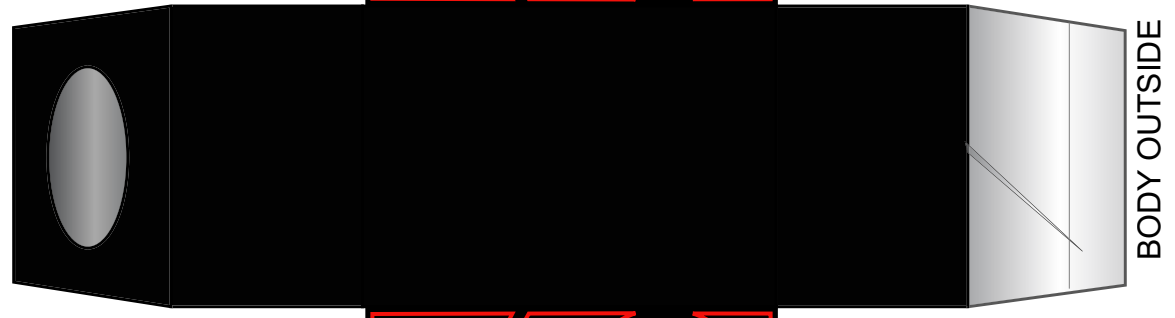
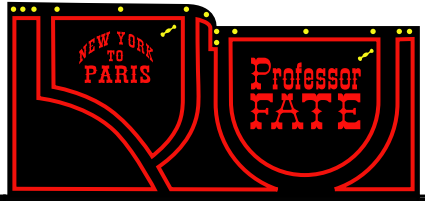
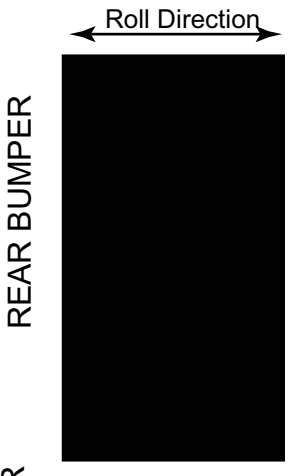
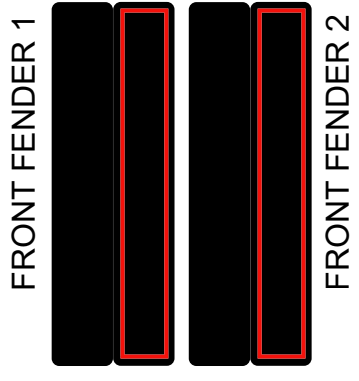
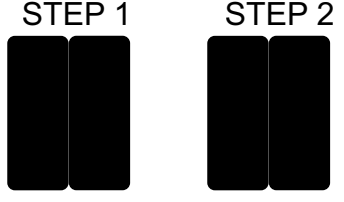
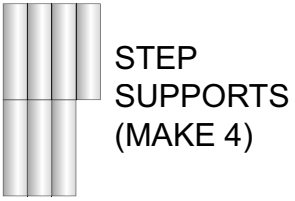
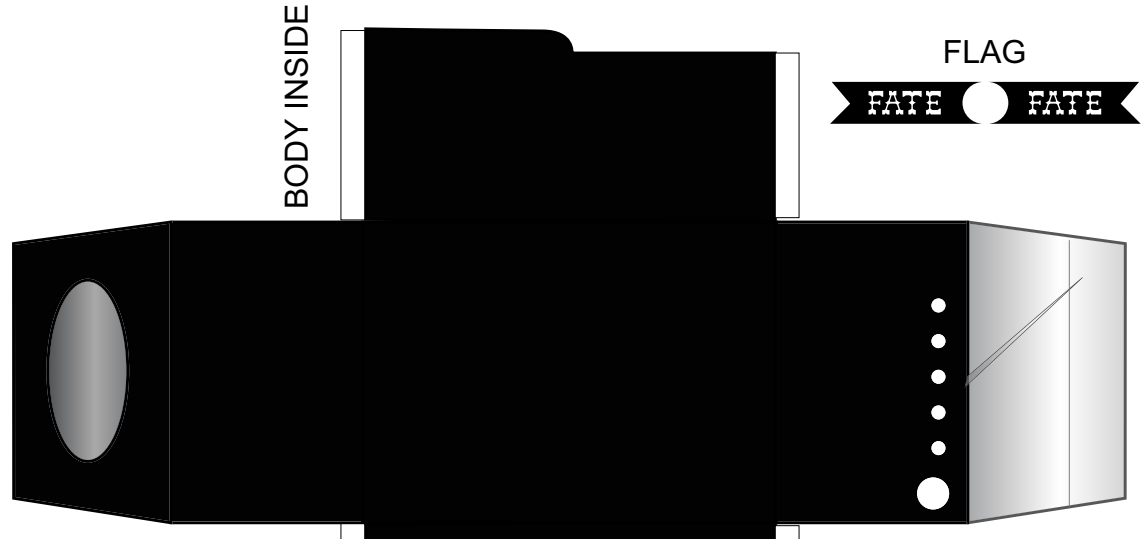
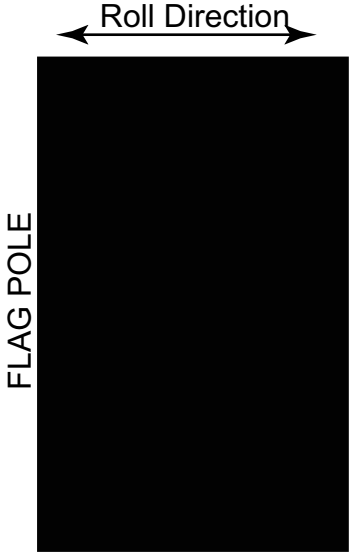
That pretty much sums it up. If you have questions, please e-mail me at eellbee@earthlink.net.

Push The Button, Max!

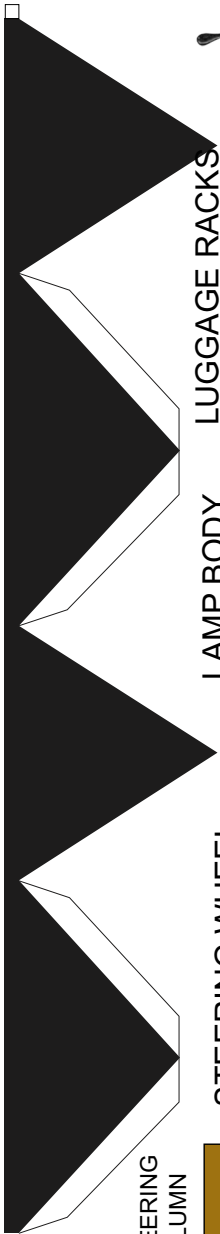
If you can come up with a good way to make a working scissor lift mechanism or a cannon, please let me know.

This model is for you to use anyway you want. If you want to sell it, go right ahead. If you want to distribute it free, go right ahead. If you want to modify it, go right ahead.

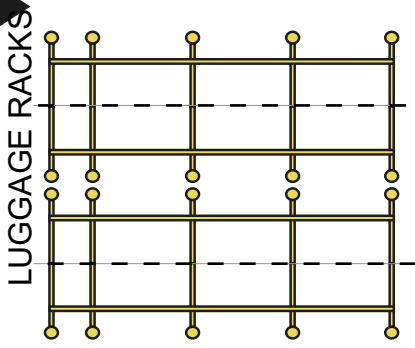
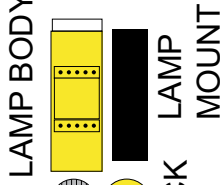
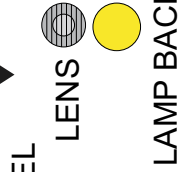
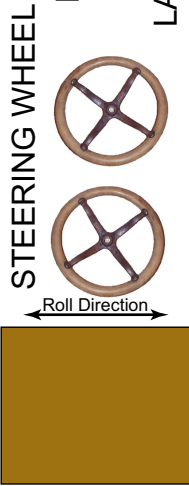
It was designed and built by me- Ed Bertschy, and I have placed it in the public domain this September 24, 2002. But mostly, it is for you to enjoy.



CANOPY



STEERING COLUMN



LUGGAGE RACKS

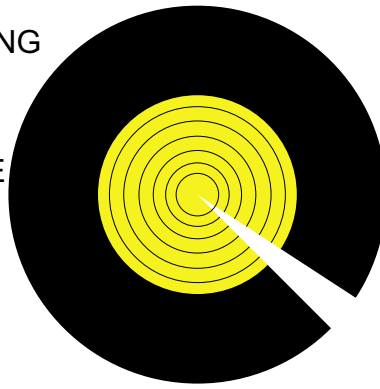


HORN

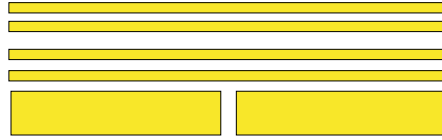
NOSE CONE RING



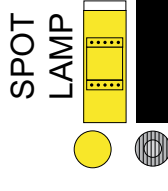
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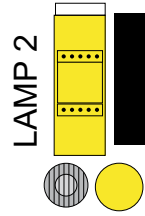
RADIATOR GRILLE SIDE



RADIATOR CAP NECKS

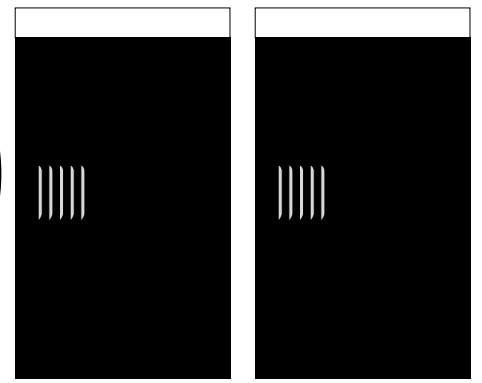


SPOT LAMP

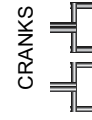
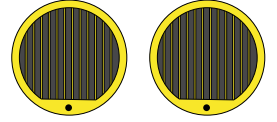


LAMP 2

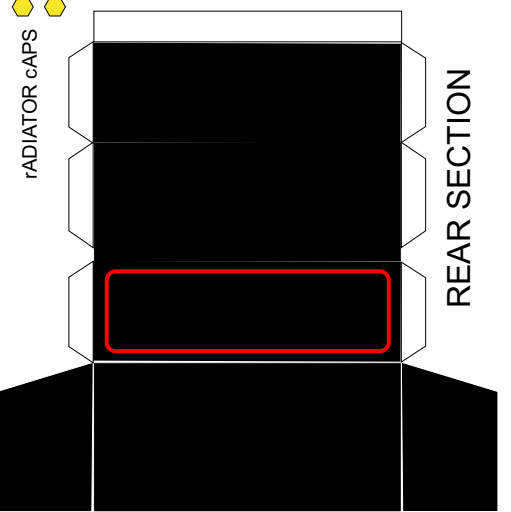
ENGINES



RADIATOR GRILLES



CRANKS



REAR SECTION

RADIATOR CAPS



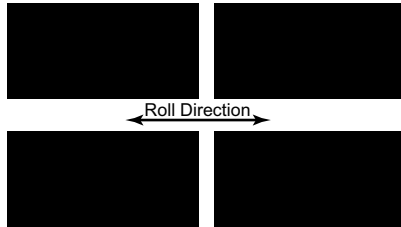
BETWEEN ENGINE DECK

FRONT FENDER SUPPORTS A



Roll Direction

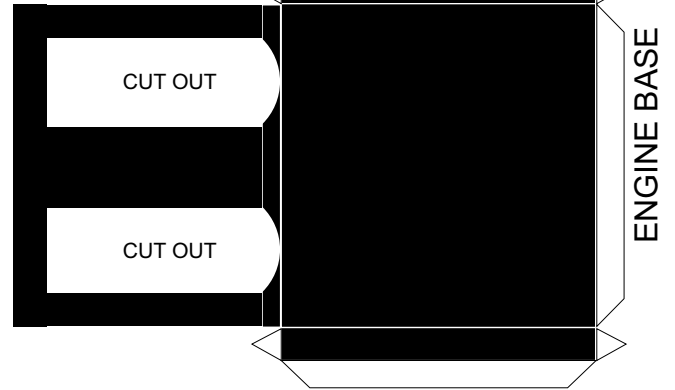
REAR FENDER SUPPORTS



Roll Direction



TAIL PIPE
Roll Direction

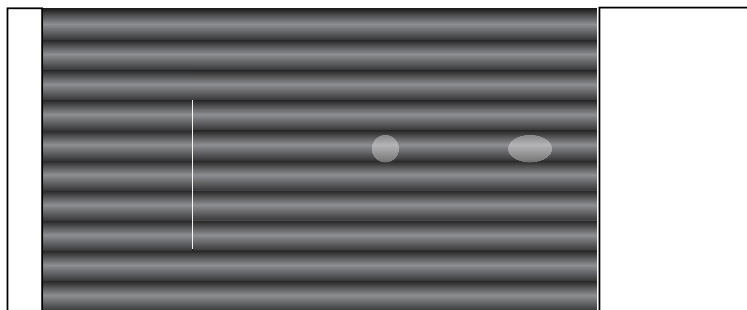
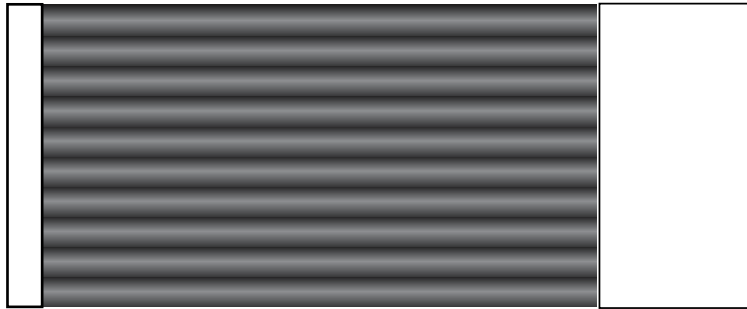


ENGINE BASE

CUT OUT

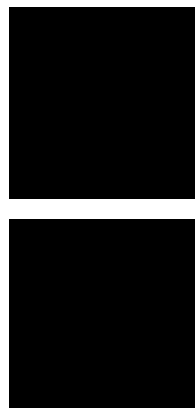
CUT OUT

REAR SEAT



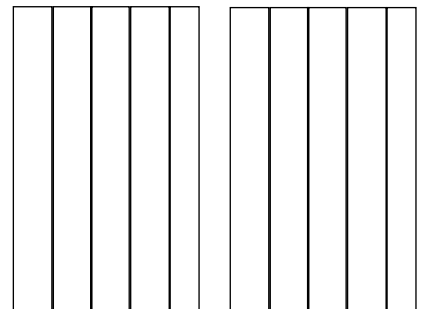
FRONT SEAT

FRONT FENDER SUPPORTS B

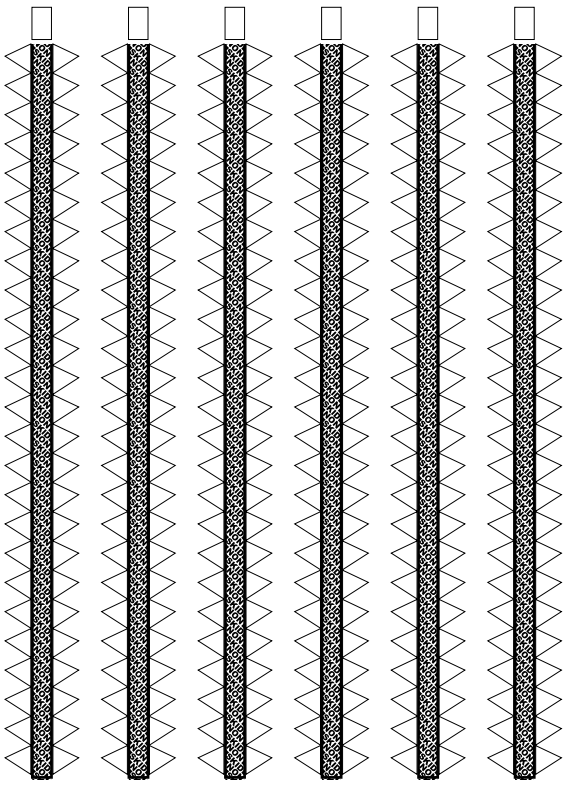


Roll Direction

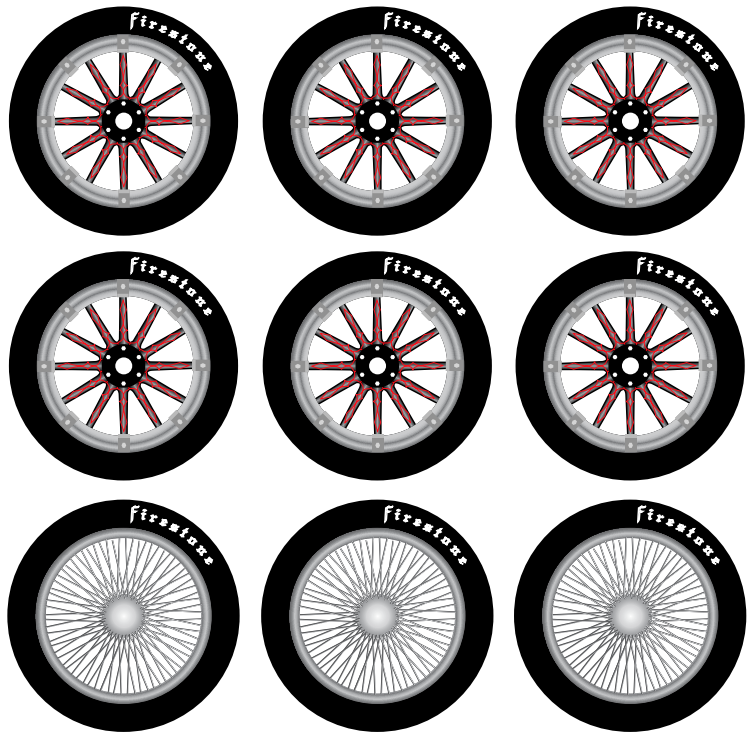
INSIDE SEAT SUPPORTS



TIRE TREADS

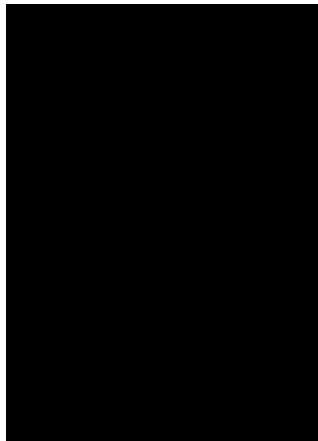
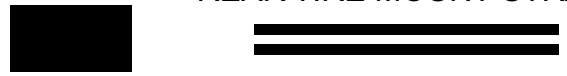


TIRE WALLS

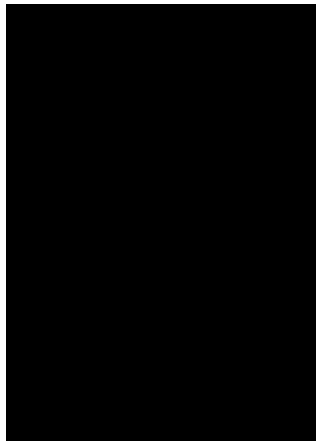


TIRE WALLS

REAR TIRE MOUNT STRAPS



REAR AXLE 1

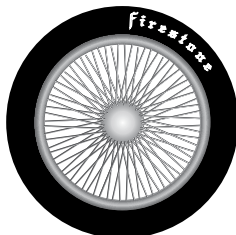


REAR AXLE 2

Roll Direction

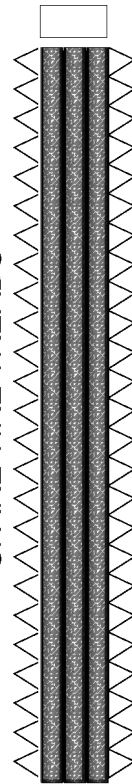
Roll Direction

REAR TIRE MOUNT



TIRE WALLS

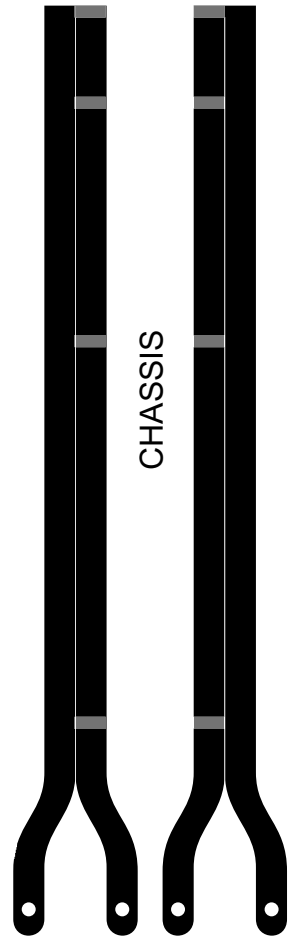
SPARE TIRE TREADS



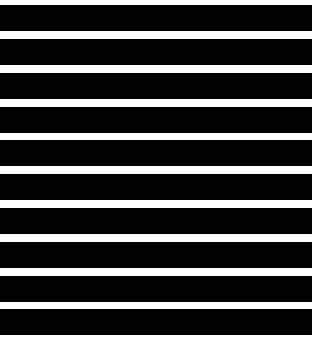
C1

C2

CHASSIS

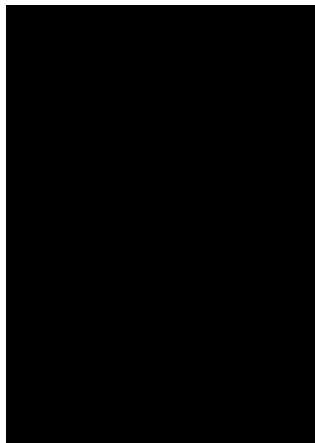


H1 H2 H3 H4 H5 H6 H7 H8 H9 H10

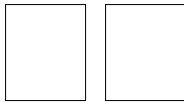


WHEEL HUBS

FRONT TIE ROD



FRONT TIRE SPINDLES



Roll Direction

C5

CHASSIS CROSS MEMBERS

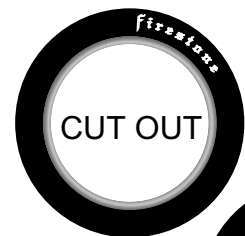


C4

C3



REAR SPARE TIRE STACK WALLS



CUT OUT



CUT OUT