

#### STEP 6

Install body mounting tubes on the chassis. Using brass tubes 3/4" x 1/16" x .014" (K&S #8125) solder onto the chassis. There are five mounting holes per side. I use the mounting locations shown in the image. Solder in place on the inside of the body guides.

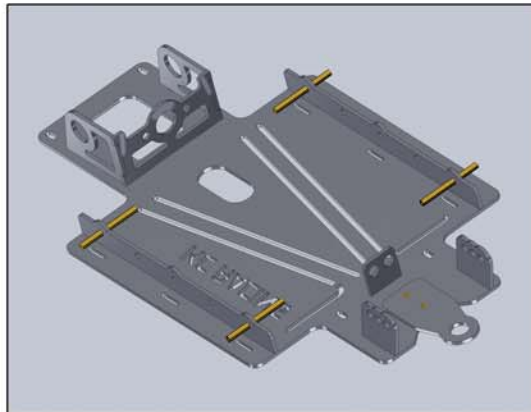
When mounting the body I use a 7/64" hole in the body. This allows the body to float so the chassis can flex when racing.

A sewing sequence placed on the pin prior to inserting into the tube will assure the body cannot fall off the pin head.

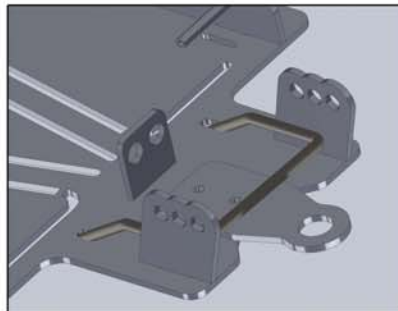
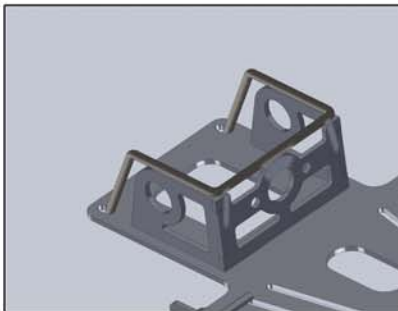
#### STEP 7

Install and solder in place the lead wire retention clip.

This clip allows for large gauge wire to be used on the chassis to provide power to the motor from the braids.



#### OPTIONAL



The oval holes in the chassis behind the motor box and front axle mounting provide an anchor point for the installation of a 1/16" diameter reinforcement wire.



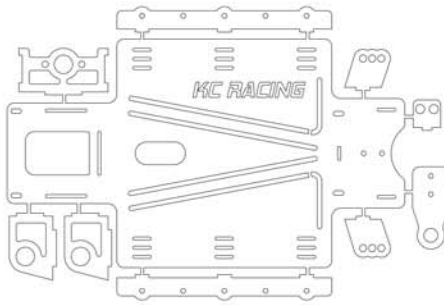
## KC Racing "Lucky-7" Hardbody Chassis

*Designed for competitive Hobbystock, Super Sport, Pony Stock Racing \*\**

- Chassis design optimizes handling and weight distribution
- Designed and developed with parametric modeling
- Ultra low center of gravity design for increased cornering speeds
- Center of gravity 2.16" ahead of the rear axle for optimal ballasting
- Precision laser cut for easy assembly
- Part accuracy to 1/1000<sup>th</sup> of an inch
- .040" solid brass construction
- Three front axle mounting choices in the kit
- Five wheelbase selections 4.75", 4.625", 4.5", 4.375", 4.125"
- 0.053" rear clearance sitting on 0.95" diameter tires
- Anchor points for easy rear bracket and front upright bracing
- Full length body rails - three width positions for precise fit of your body
- Large motor oiling hole in chassis bottom.
- Approximately 79 grams before assembly
- Made in the United States of America

\*\*Compliant with current Hardbody Series' Rules

# Computer generated precision laser cut



## WEAR PROPER EYE AND FACE PROTECTION

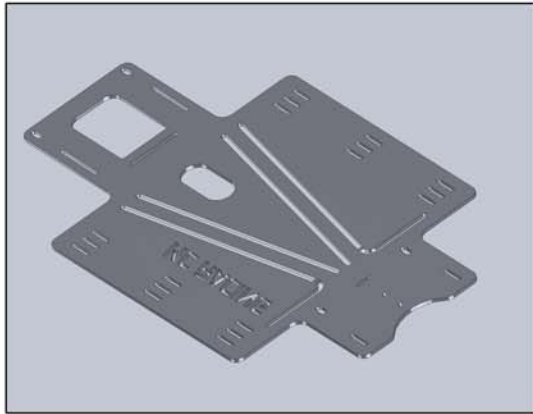
Carefully separate parts from the chassis pan. Using a Dremel or Belt Sander trim the tree tabs flush with the part. Dry fit the parts.

Using rosen core solder attach the parts. Best results are achieved with a Hakko FX-601 soldering iron.

## SOLDER IN A PROPERLY VENTILATED AREA

Take your time insuring the axles are parallel (chassis fixture is not required but recommended)

Clean the solder rosen from the finished chassis. After soldering is complete, the completed chassis can be polished to a mirror finish using automotive finish products.



### STEP 1

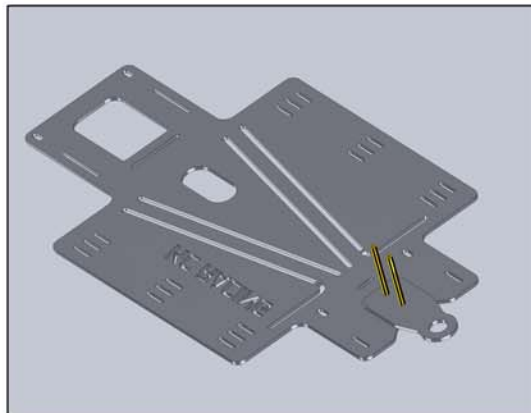
Place the chassis on the work surface with the KC Racing logo face down. This will allow the logo to be in proper orientation from the bottom of the chassis when viewing or taking your winning photos.

### STEP 2

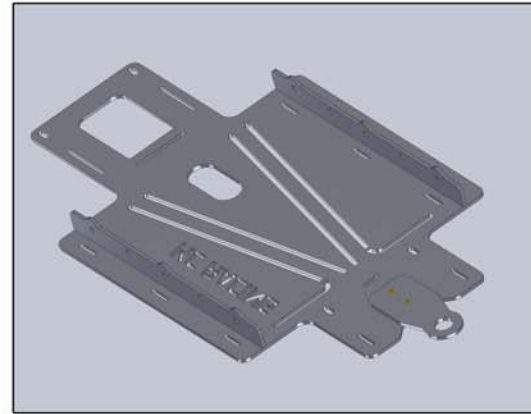
Place the guide mount on the chassis. Align the guide by inserting a pair of 1/16" diameter pins into the alignment holes. I prefer to use the same material used in the body mounting (K&S #8125 1/16 x .014) although 1/16" diameter steel rod can be used.

These pins align the guide mount and provide a mechanical lock of the guide mount to the chassis in a crash.

Solder the pins onto the guide mount in position on the chassis. Solder the sides of the guide mount to the chassis.



Allow the parts to cool. Using a dremel with a cutoff disc trim the top of the pins flush. If you used the K&S brass tube you can add solder to the top of the trimmed pins.



### STEP 3

Next add the body side guides to the chassis. The guides should be installed with clearance between the inside of the body and the side guide. If the guides are placed too tight to the body the car the body will restrict the chassis flex and the car will have a tendency to 'jump out' when cornering.

The body mounting tubes and pins will secure the body to the car.

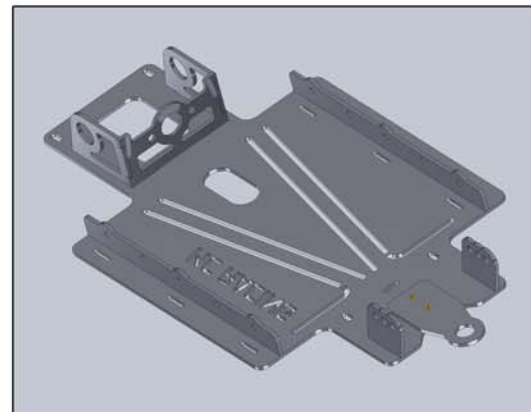
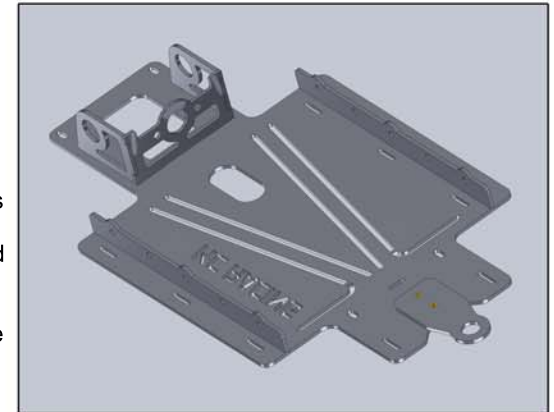
### STEP 4

Add the motor box / rear axle mounts to the chassis. I suggest you dry fit and install the rear axle bushings to the axle mounts prior to assembling.

Inserting the rear axle and bushings is helpful to align the box to the chassis, especially if the assembly is performed without a chassis fixture.

Using a small tack of solder attach the inside rear of the axle supports to the chassis. Next tack the center (inside) of the motor mount to the chassis.

Once you are satisfied with the box installation and alignment solder the inside of the box seams. I usually start with the rear axle mounts and proceed to the motor mount last.



### STEP 5

Next add the front axle supports. The supports are designed to provide five different axle locations to custom fit to your body.

The mount was designed to use independent front tires but can be adapted to other variations.