CAR KIT

SPECIFICATIONS

LENGTH

The car block has been cut to a length of 7" (17.5mm) you may cut The block shorter, but do not add to its length, when finished it will need to fit into a measuring box. If your Otter car has had its length lengthened you will be required to remove it to fit the measuring box to race.

WIDTH

The car block has been cut to the required maximum width of 1 ¾" (4.5mm) you may add pieces of wood between the wheels if you wish, but not to exceed the overall width including the wheels of 2 ¾" (7 cm) as the spacing aligns the car to the track.

HIGHT

Maximum height from the bottom of the wheels to the top of the car is 3" (7.5mm) You may add wood or other items to achieve this height, but they must be securely attached. IMPORTANT, the clearance from the bottom of the car to the bottom of the wheels must have a clearance of 3/8" (95mm) to clear the track lanes

WEIGHT

When finished the overall weight can not exceed 140 grams (5 oz) you may add weight to bring your car up to this weight, but the weights must be securely attached to or imbedded in the cars body.
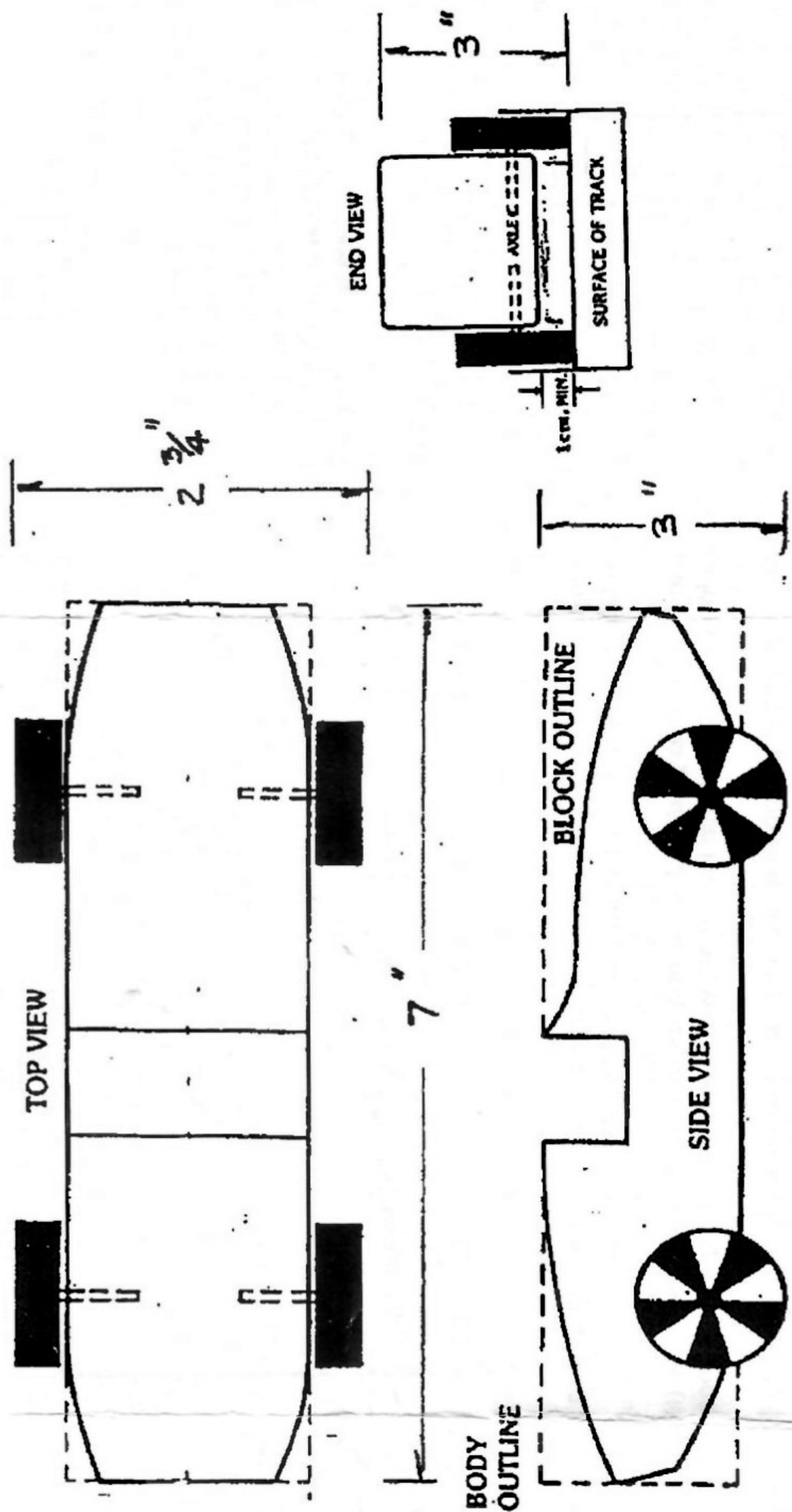
TIPS

Carefully de-burr wheels.
Use graphite to lubricate wheels.
Do not use washers or bearing as this will disqualify your car.
Use 1 or 2 coats of paint only to seal the bottom of your car, to show that the body is of wood.

SAFETY

This is a parent / youth project where the youth should do as much as possible by him / her self with parent supervision, such as drawing the design and sanding the body after it has been cut.
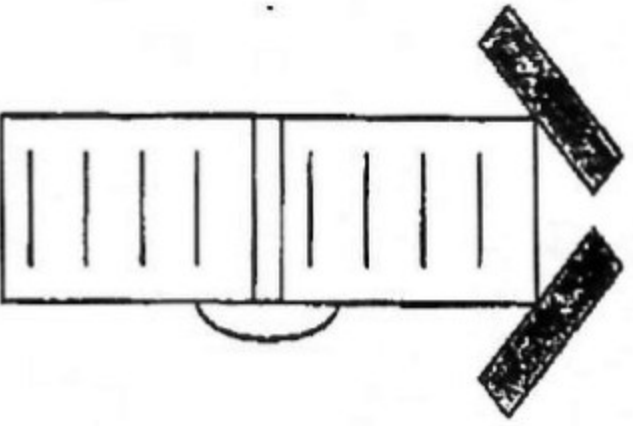The parent should do the cutting of the cars shape and installing the wheels.
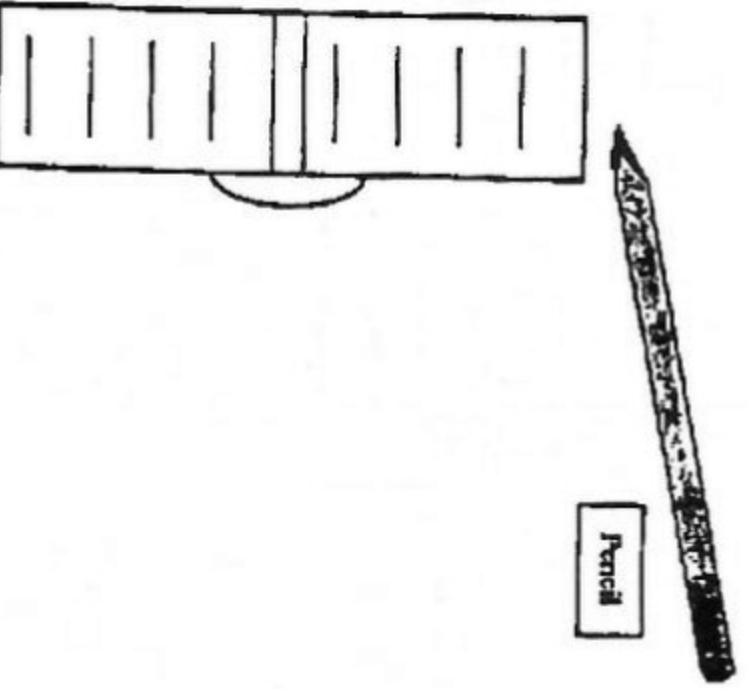
TOP VIEW

BODY OUTLINE

7"

2 ¾"

3/4"

END VIEW

AXLE

SURFACE OF TRACK

1 CM. MIN.

3"

SIDE VIEW

BLOCK OUTLINE

3"

TIP SHEET

Block and Nails

Take the block of wood (or before assembly of parts) and lay on its side, place a nail with the short cut side closest to the blocks main body and lightly tap into pre cut slot keeping the nail 90% to the block side . Tap the nail in about half way, checking to see if its going in at 90% to the block. When you are about half way pull the nail out carefully using a pair of pliers, repeat for all remaining nail slots.
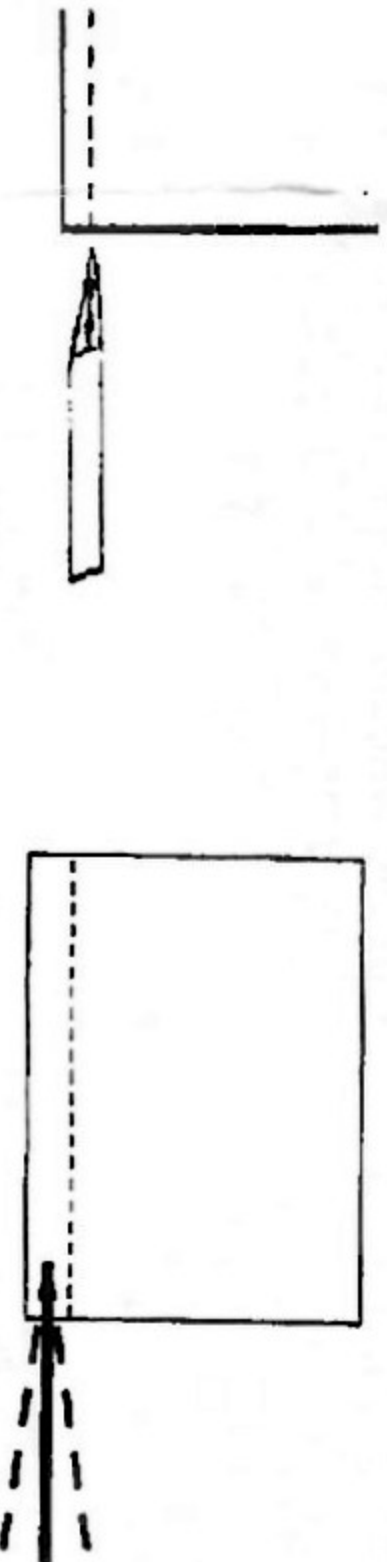
Weights

Weight location is best over the back wheels and as high as you can get within your design, (see your weight limit on the kit sheet for your car / truck). To allow for paint take about 20grams or so off the final weight, this is for your paint job. You can add any shortfall weight after to bring you car / truck up to its max. weight. If you do not have a scale available then you can take your car / truck to the post office, if they are not to busy they will most likely weigh it for you. Make sure you have everything with you, for trucks leave the back panel off the trailer so you can add or sub track weight as needed, just remember to add the panel to you truck when its being weighed.

Painting

When painting you car / truck you can use either water based paints or spray paints, your choice, the only thing to remember is that you can only apply enough paint to the bottom of your car / truck so that the wood grain is still visible to see.

IDEAL LOCATION

Wheels

Using #120 grit sandpaper remove the sharp edges from both inner and outer edge of the wheel surface. before attaching the wheels to the car block

After sanding the wheels use a pencil to coat the wheel surface or use a cloth and graphite powder, this will make the wheel surface more slippery with the surface of the track.

Pencil

Cars

You can add items to your main block as well as cutting it down, changing shape etc, your choice just as long as you stay within the length, width, weight and height guidelines.

4 X 4

You can add items to your truck assembly as well as changing its shape (like a van) as well as cutting it down, your choice just as long as it stays within the length, width weight and height guidelines.

Trucks

You can change the design to whatever shape you want, i.e. box trailer to flat bed, tanker body, logging bed, etc, same goes for the cab, i.e. older style car or one of your own design. You can even make it a one piece design like a bus or RV, by shortening the length, your choice just as long as you stay within the length, width, weight and height guidelines.