



VIGOR TRACTOR
Tracked vehicle
starter kit

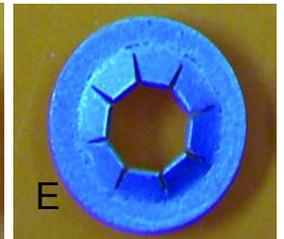
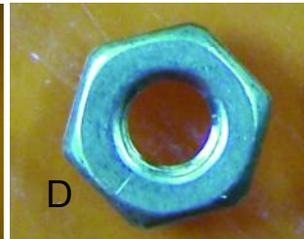
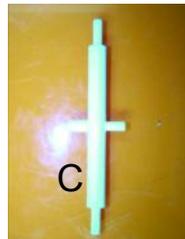
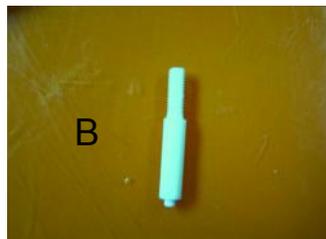
Step 1: Articulating front wheel assembly;
You will need the two front arms part A,
4x of part B (2 per side),
1x of part C cross arm,
4x of part D and
1x of part E.

*** Part C is made of resin with a cast in place aluminium support arm running all the way through it the full length. When attaching part(s) A to part C with part E be carefull not to exert pressure on the shorter stub arms on part C or the front arms (part A) they will break if stressed too far.

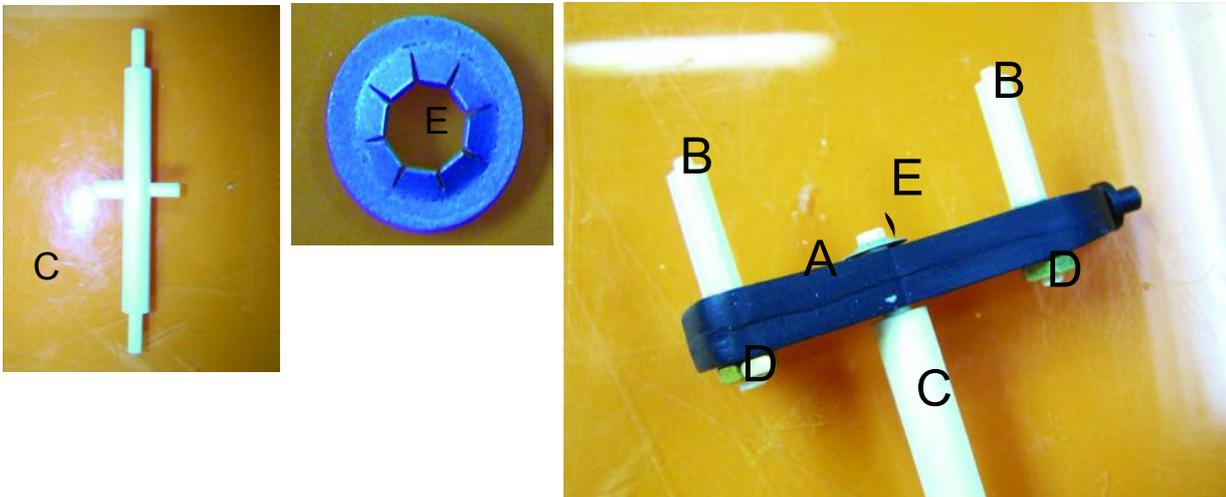
Begin by attaching part B to part A. Push the threaded 10/32 threaded end through the two outermost holes on part A. Tighten part D onto the threaded end finger tight to hold the wheel mount in place. You will want to mirror your assembly for the second side. See photo for reference.



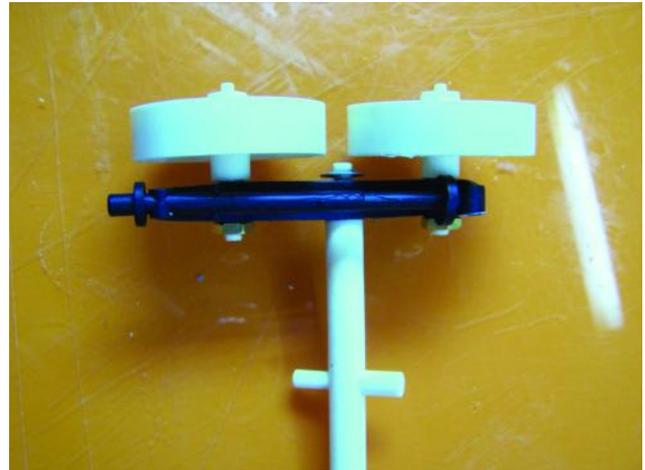
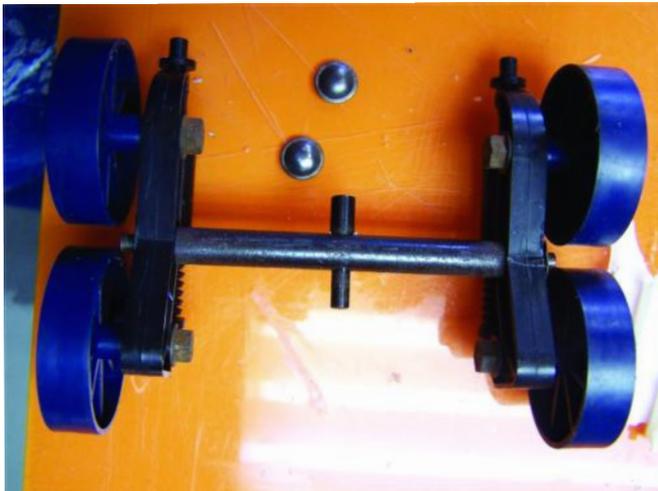
Part Identification Chart



Next mount parts A to part C (cross support arm). The 3/16 ends push gently through the center hole on part A. Push part A tight to part C. When in place push part E over 3/16 end of part C on both sides. You will want to have the part E attached on the side with part B. See photo. Basically you are making a right and left side with the part C as the articulating beam arm.



Overview of completed front assembly for guidance



Parts A omitted for clarity

Step 2: Front arm shock absorber.

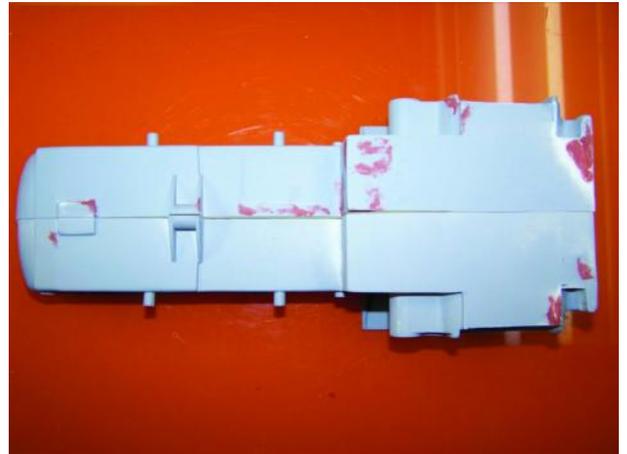
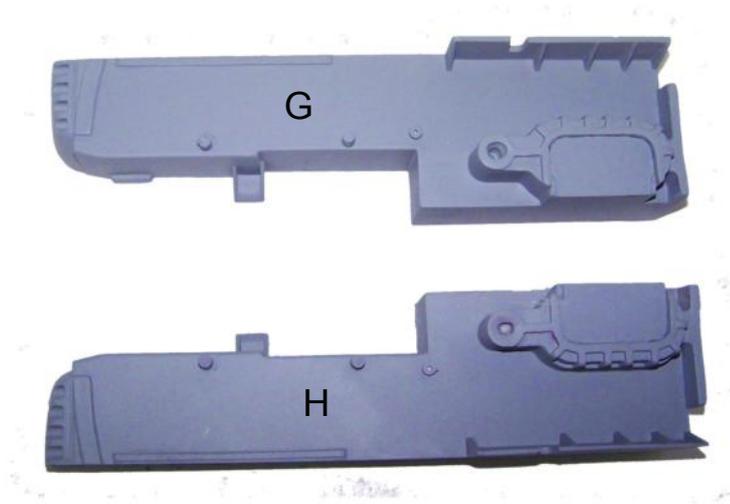
You will need 4x of part F. These mount on either side of the skinny rail atop the control arms (parts A). Please note the direction part F is pointing on the arm. The two halves should fit together easily, if it is difficult try aligning to the other half.

They go directly around the skinny rail with the two tabs on the rail holding the casing forward to the thicker end of the arm.



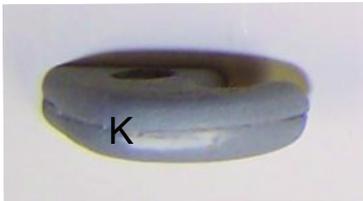
Step 3: Body assembly:

On a flat surface glue the two body halves G and H together aligning the two halves carefully. PLEASE NOTE: There is some misalignment, this is natural - it is the way the toy is , of which this a direct copy. One side is slightly longer than the other.



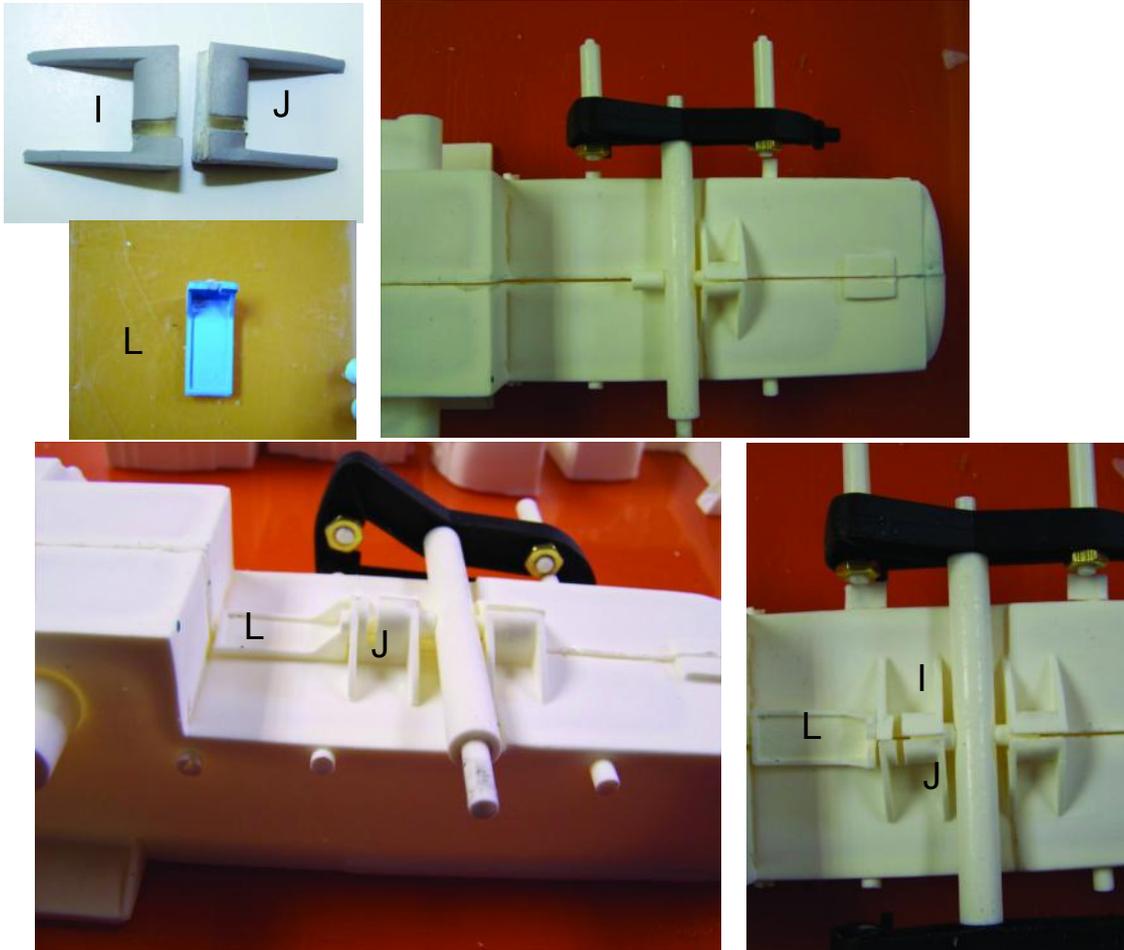
Step 3a: Tow hook;

Glue the tow hook (part K) in place at the front of the tractor. The hook faces toward the rear of the tractor. See template and photos for location reference.



Step 4:

Locate parts I and J (left and right halves of cross arm mount) and part L. This holds the cross support arm (part C) in place. Align the front wheel assembly in the mount as shown. Take note of using these photos and the template provided where parts I and J mount. There will be a gap for forward/rear play.

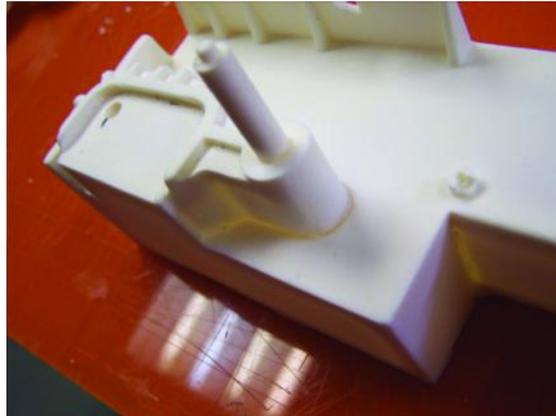
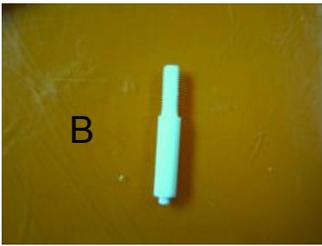


Start by placing part L against the lower back wall, with the notched face toward the front of the tractor. It should be centered on the tractor halves. Cement in place. Now butt part I and J up against the notched face of part L. Cement in place. This should create the articulated front suspension.

Original toy photo ref below

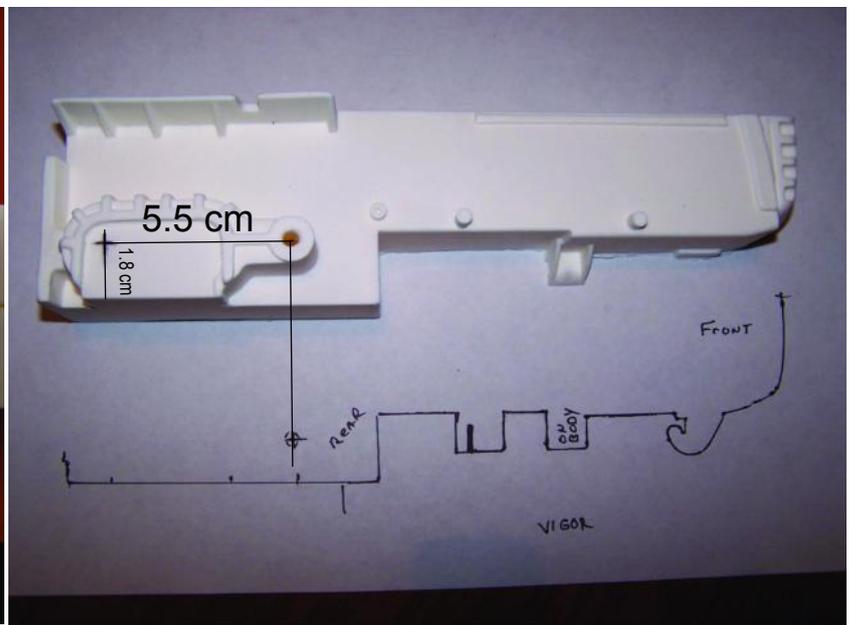
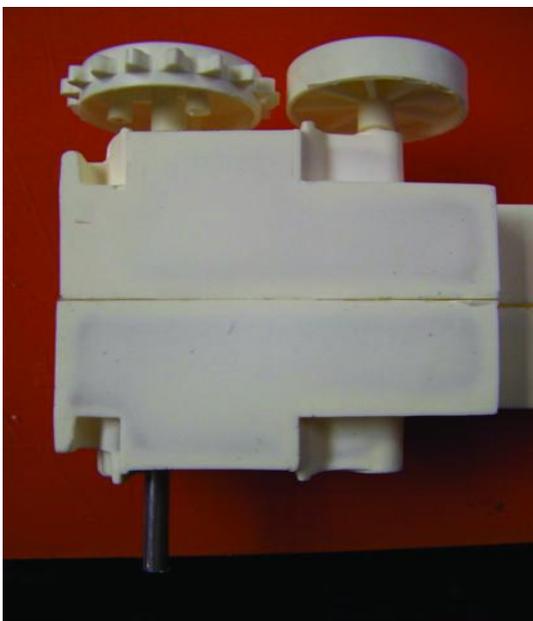


Step 5: Rear wheel assembly. Locate part B.
Cement part B in place on body at start of fender in
corresponding 3/16 hole. See photos. Repeat for other side.



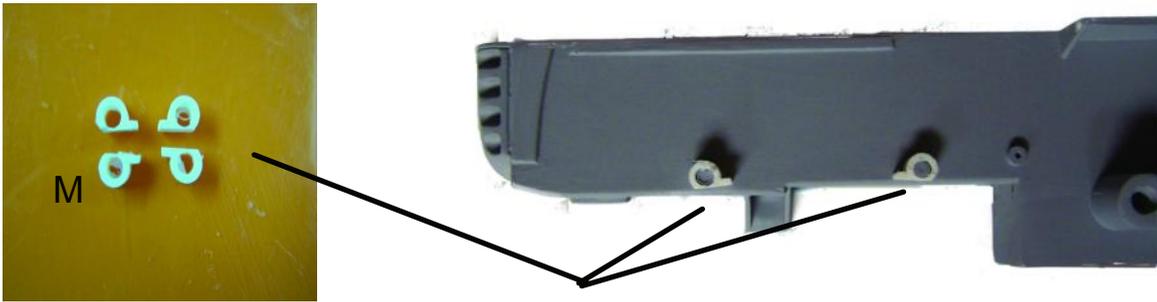
Note: One side will allow part B to recess into the hole. This is not correct. This was a flaw on the toy we copied. IT should sit flush to the fender surface.

Step 6: As indicated on the template mark and drill a 1/4" hole at the rear of the tractor all the way through both halves. I recommend drilling from each side so you do not go crooked. If you do your wheels will be askew. Repeat for the second side.

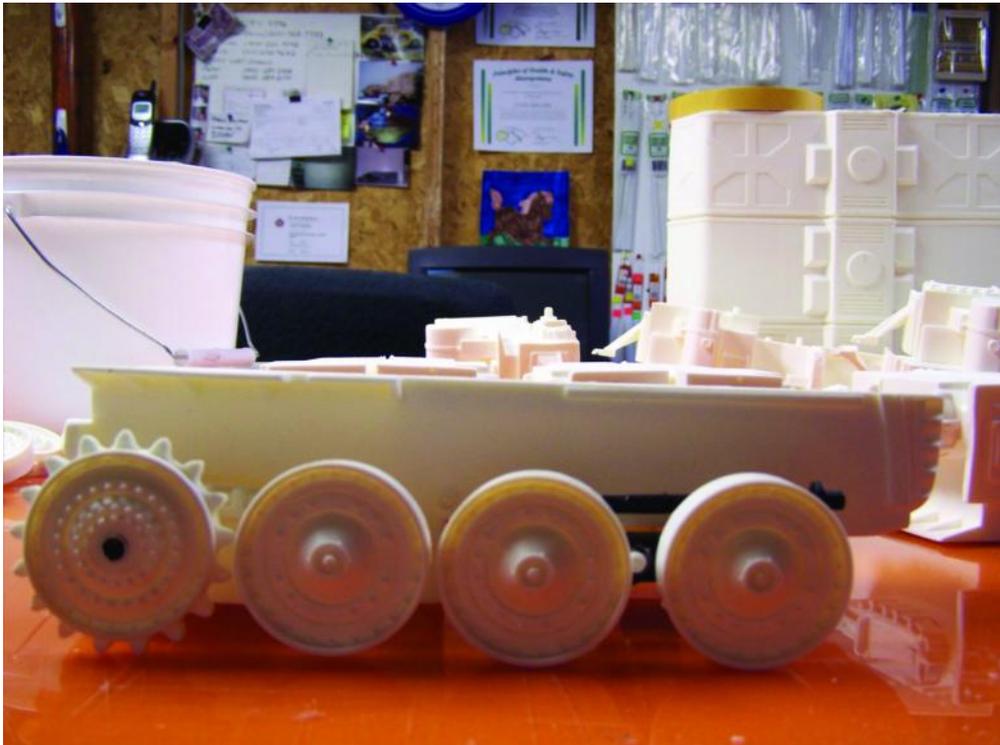


Next insert the 1/4" aluminium rod through both sides. This provides the rear axle mount for the drive wheels. Cement in place to prevent it from sliding side to side.

Step 7: Wheel bump stops. Locate part(s) M, there is 4. These are the wheel bump stops and mount to the body, 2 per side as per the picture below. Cement in place.

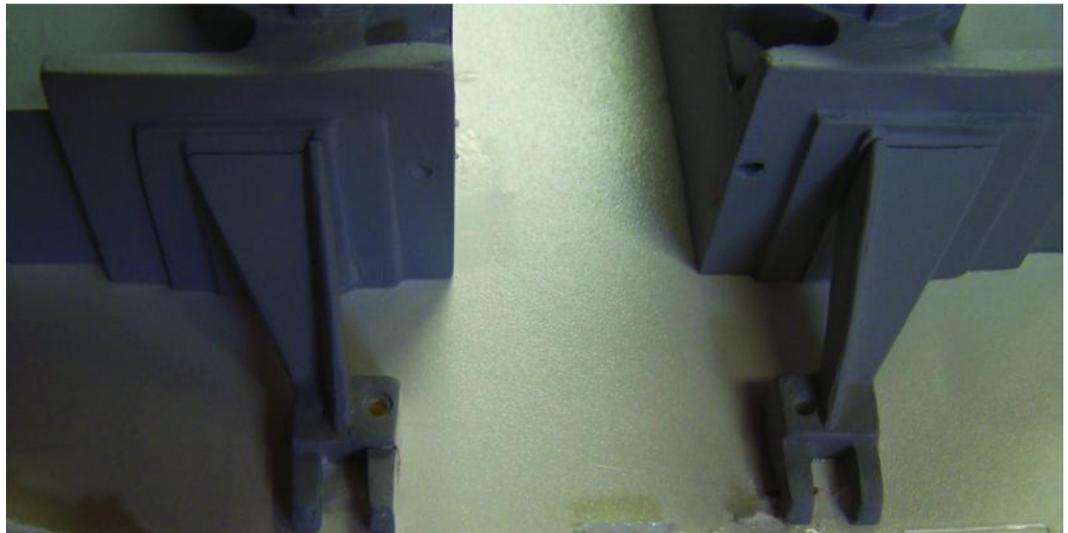
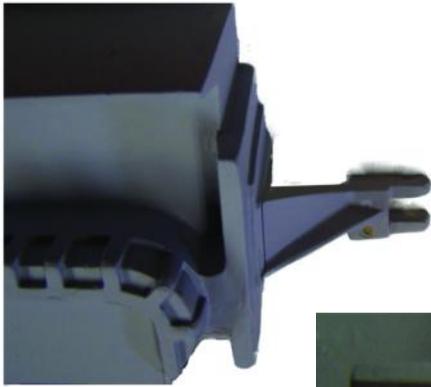
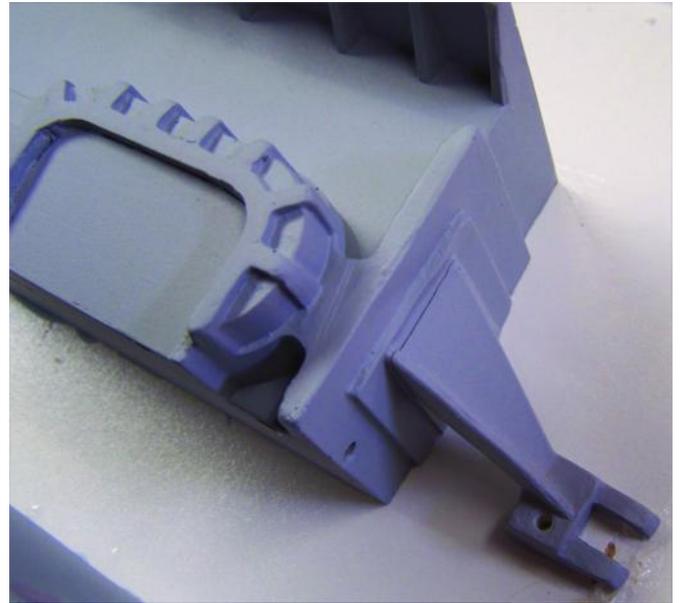
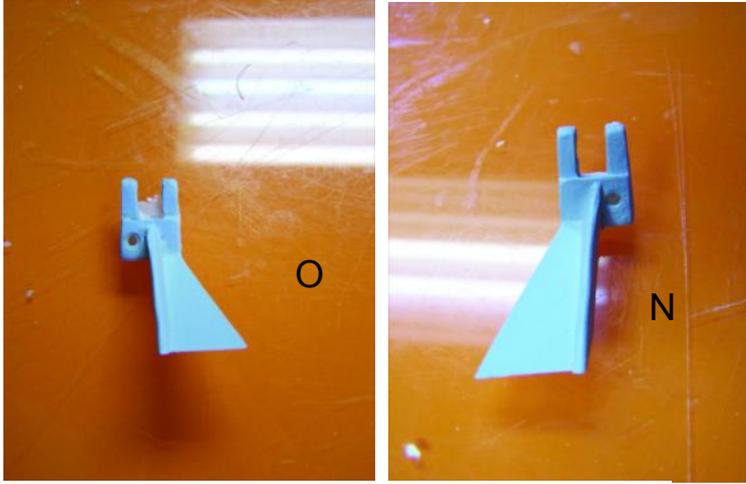


Step 8: Almost there , you should now have a half body with an articulated suspension.



Step 9: Towing pintle

Locate part N and O, left and right towing pintle. Cement the two parts in place at the rear of the tractor. There is a small nib on each side which mates to the jutting angle. The rest of the contour cut will match.



Step 10: Treads ** Caution, the treads are rubber but will not resist too hard of a pull or misuse.

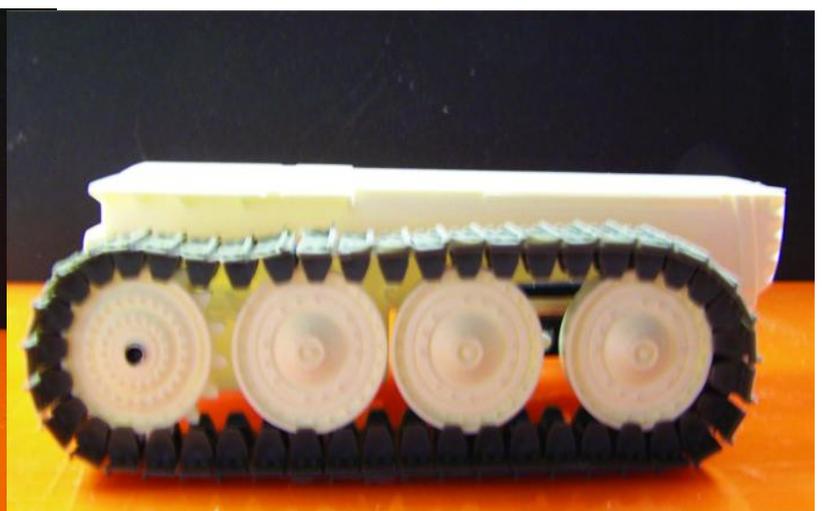
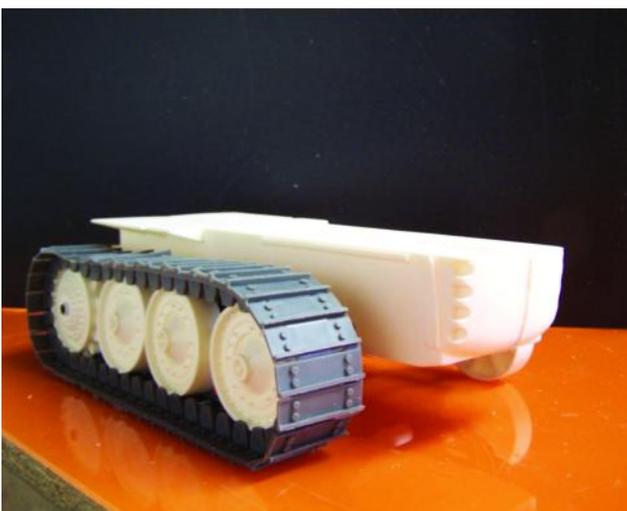
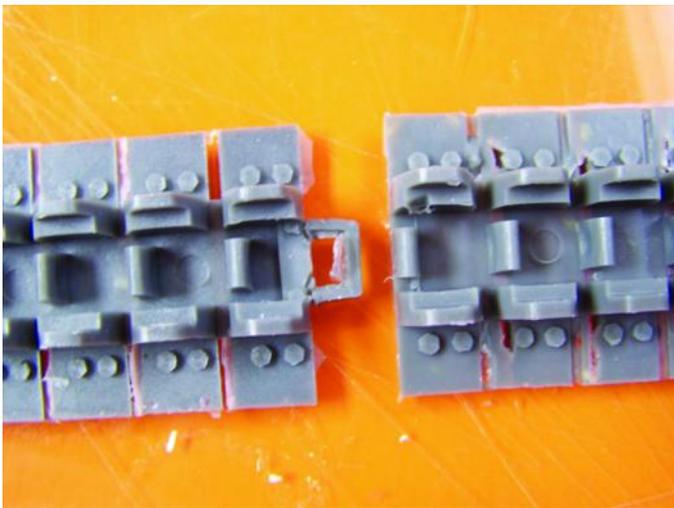
Handle with care.

Each side tread consists of three sections of track. Each section links to the next by means of a connector at the end. You may want to cement the end link joins together to keep them from seperating.

I suggest putting the tracks together, but leaving the last link open (see photo). Then wrap the tread around the wheels leaving the last link join so it ends up in the bottom middle. Then carefully push the last link together.



3x per side for one track



** The tractor body will sit at the angle just like in the last picture. This is the correct rake produced by the toy itself**

Step 11: Hubcaps.

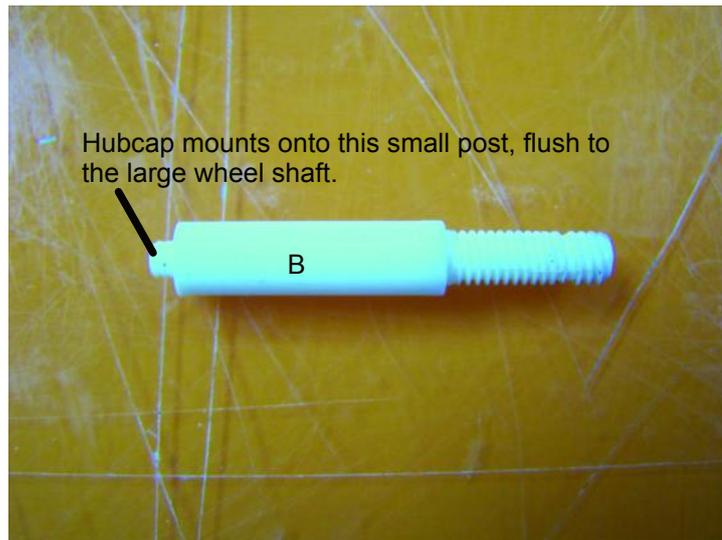
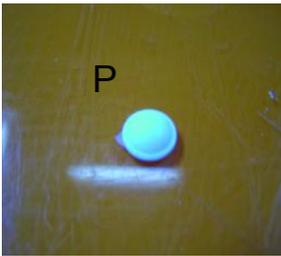
Each of the eight wheels get a hubcap part P. On the original toy these were metal with a inner metal ring that grabbed the small end of part B. At this time we have not reworked the inner detail on our hubcaps to grab this post.

So you have two choices:

You can drill a matching hole in the center of the back of the hubcap and glue in place once you have the wheel on.

Or you can cut the small post off and glue the large surface of the hubcap to the wheel shaft.

In either case, use caution, you do not want to glue the wheel to post.



Congratulations!

This tracked vehicle kit is made from a 1/16 scale Vigor Tractor toy made by Victory models in the 1960's. It was used in many of the Thunderbird episodes as the basic tracked vehicle set, with or without the body.

For the mole, it was as depicted by this kit, cut down but basically intact from the deck down.

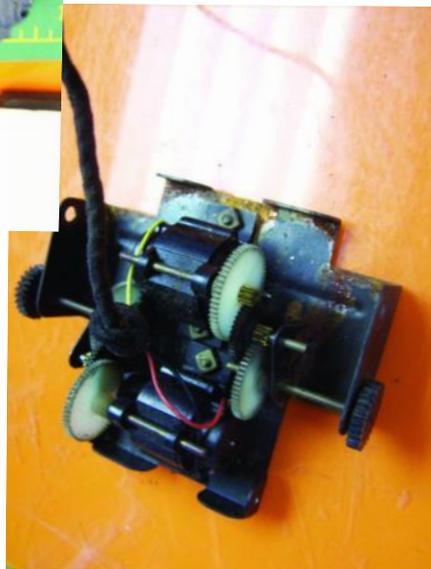
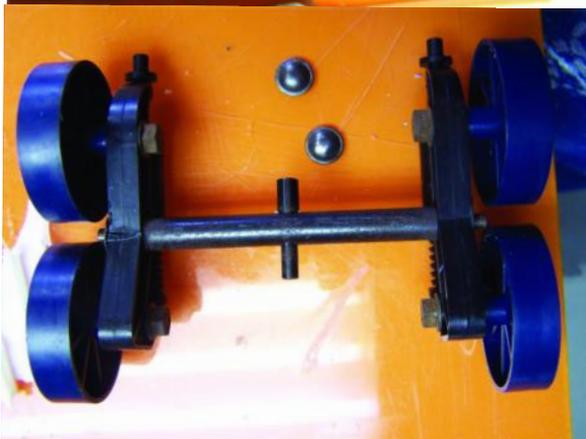
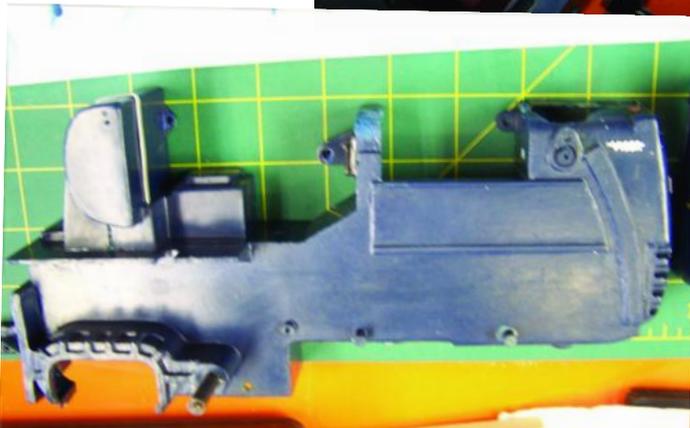
In other episodes just the wheels and tracks were used mounted on handmade bodies.

But whatever your modeling there is no denying its cool to finally have one of these.

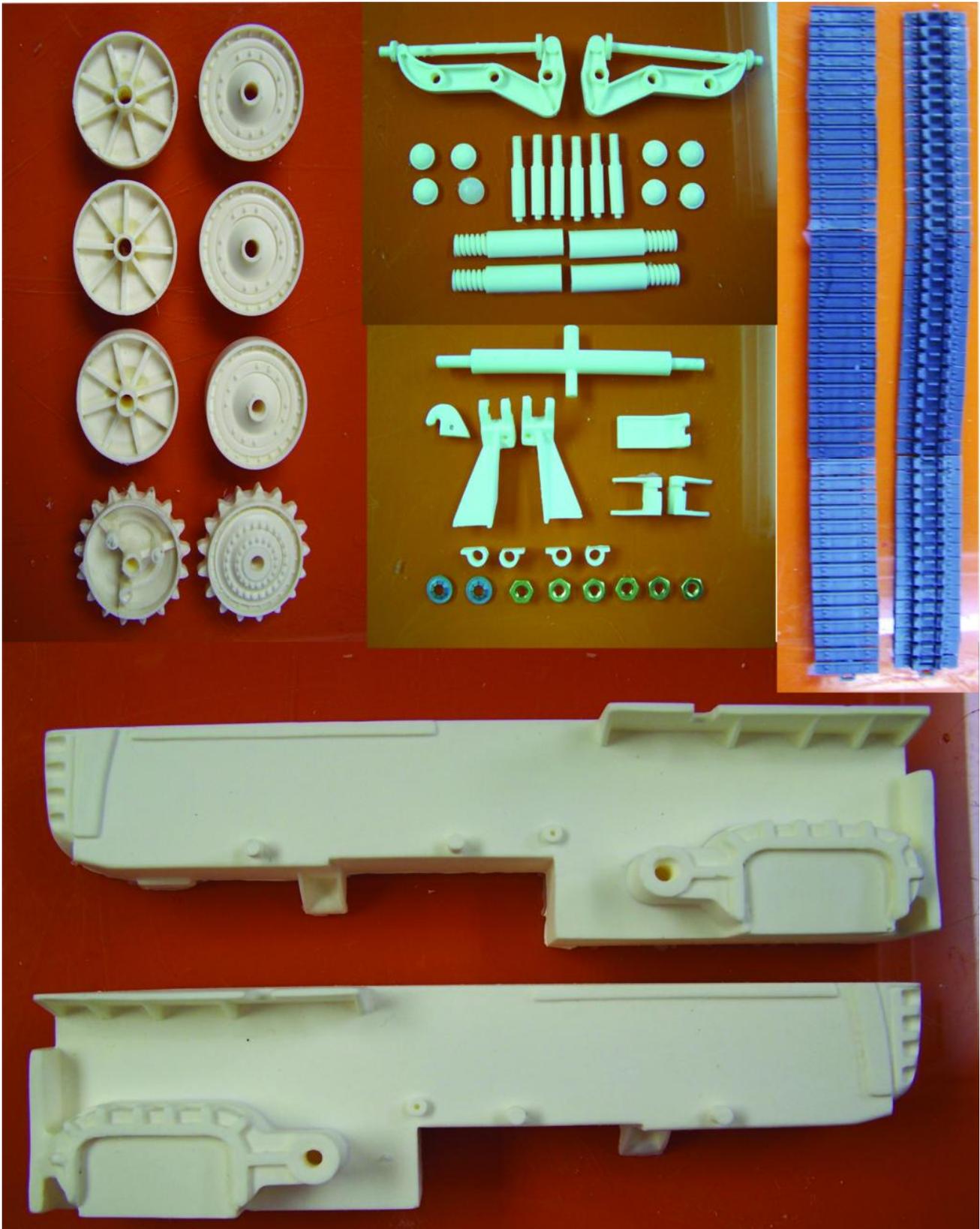
A few words on our kit. The body is not perfect, its modeled on the toy and that due to age and technology of the time have produced a body that is not symmetrical. We chose not to go through and correct this or remove some of the roughness that is apparent. All of this was present on the toy we disassembled and molded to base this kit on.

The angled rake of the mole is automatically created by the body kit just from the way the tractor toy naturally sits.

And enjoy a few pics of the original toy:



Parts Overview



Not shown, 1/4" diameter length of aluminium tube

