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⌂ Forum ♦ Every ♦ Tanks ♦ SU 101/102 scale 1/10 (full metal)

Locked topic

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## SU 101/102 scale 1/10 (full metal)

The topic for the Tanks section is in the **Everyone** category ; A message from Iroka, and even then the project already ate decently the family budget, and already was tired of fighting off his wife ... ...

Theme Options ▾

10/27/2015 20:50

# 41

**kostya1965** ◎

check in: 09/20/2009  
Address: St. Petersburg  
Age: 54  
Posts: 390

Message from Iroka

and then the project already ate decently the family budget, and already tired of fighting off his wife ...

Many people went through this, take courage, we all follow the project.

10/27/2015 9:12 PM

# 42

**Iroka** ◎

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

continue. made outer bearing housing with stuffing box for the drive shaft. bearing 35 \* 15 \* 11. oil seal ~ 30 \* 16 \* 10. the gland is slightly sharpened so that with the bearing in total it gives a thickness of 18mm. the drive shaft will be 15mm outside with a slight thickening of up to 16mm under the gland. inside will be a diameter under the driven bevel gear from the angle grinder + also some kind of bearing. bearing housing made of aluminum. at first I wanted to weld from stainless steel, but decided to make aluminum and fasten it to the studs. the disc really got with holes, then they will have to be repaired with sealant so that the water does not fall. I forgot to show for the last time what happens with the view of the upper part of the body





constructive difficulty arose along the way. driven gear from angle grinder obviously does not fit in the front of the housing, i.e. there will be a cutout from the bottom (approximately like the original). the width of the cutout on one side will be small, only to fit the gear, but on the other side ... I'll explain. the gears and the shurik reducer will not be symmetrically arranged, but sequentially, so that the course of both tracks is symmetrical. which means that the cutout on one side will be simply huge, almost half the width of the trough ... a dilemma

10/27/2015 10:36 p.m.

# 43

### SLESAR ◎

check in: 04/18/2013  
Address: Voronezh  
Age: 51  
Posts: 165

Message from **Iroka**

and the weight will probably be more too.

Weight of about 80 kilos is now dragging with difficulty 12 mm plywood.

Message from **Iroka**

In addition, my turning does not work with diameters greater than 75 mm (the cartridge does not allow it, in fact, it became decisive in choosing the scale)

I did it differently, got into a turning workshop, and there are some pluses, what material you want and a lot of machine tools, though the authorities graze so that they don't do the parts to the left.

10/27/2015 10:47 p.m.

# 44

**RusT** ◎

check in: 02/01/2011  
 Address: Kazan  
 Age: 43  
 Posts: 153

**Message from Iroka**

driven gear from angle grinder obviously does not fit in the front of the housing, i.e. there will be a cutout from the bottom (approximately like the original). the width of the cutout on one side will be small, only to fit the gear, but on the other side ... I'll explain. the gears and the shurik reducer will not be symmetrically arranged, but sequentially, so that the course of both tracks is symmetrical. which means that the cutout on one side will be simply huge, almost half the width of the trough ... a dilemma

And what prevents you from deploying a couple of mirrors, and power the motor in return. He is direct current, it does not matter where to rotate.

10/27/2015 10:50 PM

# 45

**Iroka** ◎

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

respected papirus does not recommend doing this. I think that he knows what he is saying ...

10/30/2015 21:57

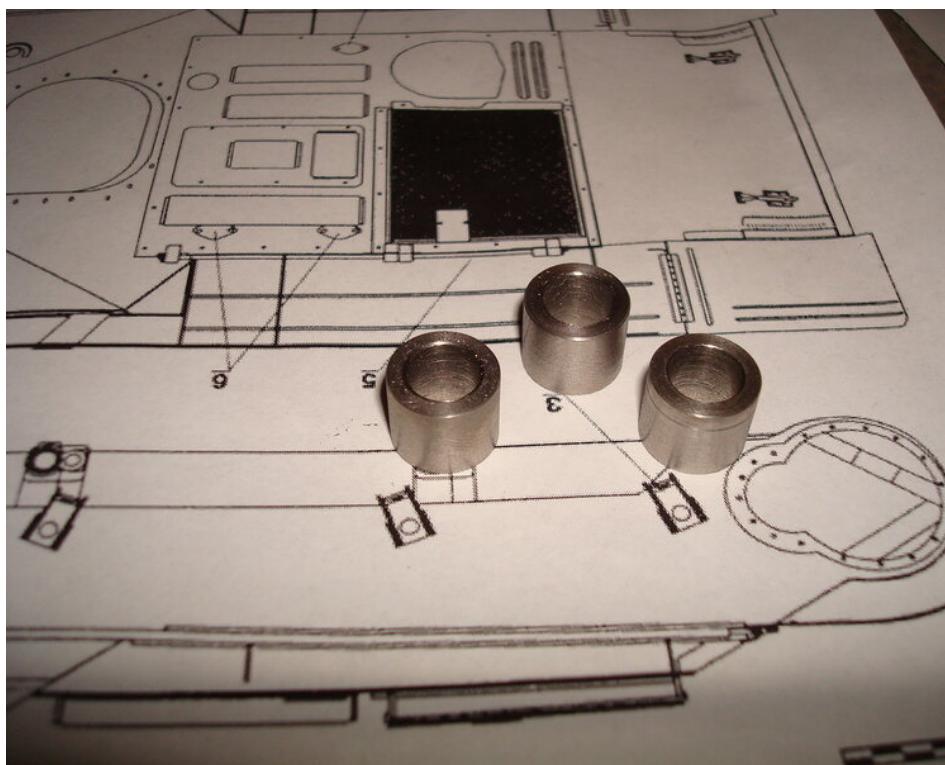
# 46

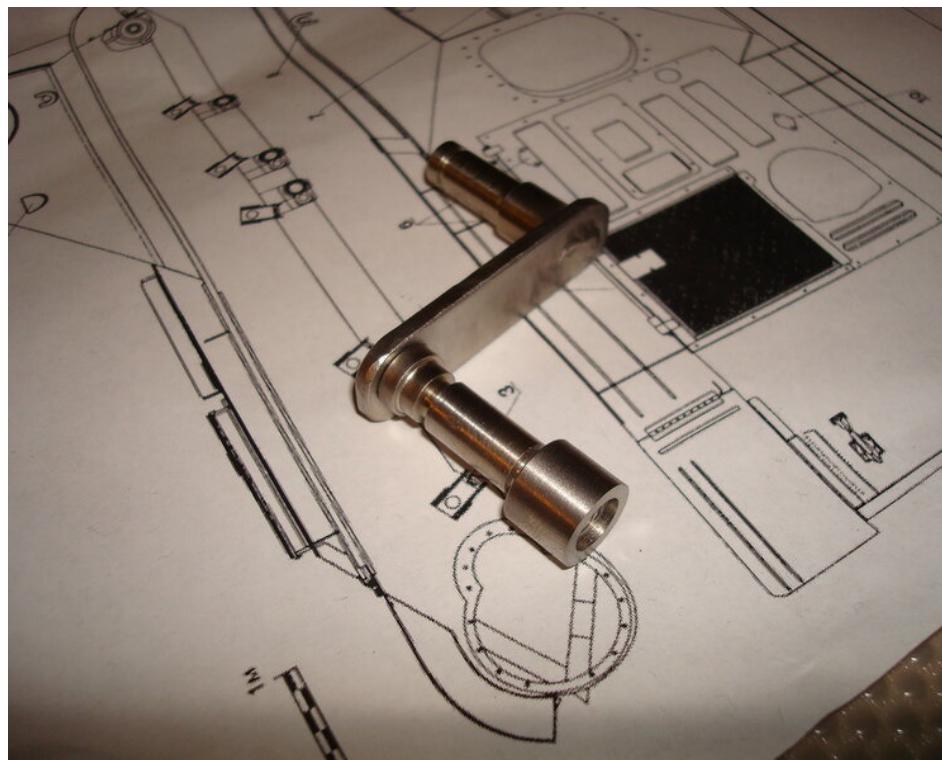
**Iroka** ◎

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

time to spare, mastered only: a mold for casting a bandage on silicone rollers and the basis of internal levers for springs, mounting on a shaft with an M3 bolt, tomorrow welding and I hope the tank will get on its own wheels already))) also today the first casting of the bandage, even I don't know how to get it. the shape in width is made 1v1, and the landing diameter is less by a couple of mm so that it fits with a slight interference.







11/04/2015 20:08

# 47

**Iroka**

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

an idea with sealant bandages ... failed miserably 😊 I will explain. firstly, the drying time is at least 5 days, or even a week under ideal conditions, high humidity and heat. total 20 weeks for all rinks. before long. secondly, shedding the form from the tube that I bought is unrealistic, there are voids. the truth is there is an option with black sealant in tubes (in auto parts on 200 rubles found), but again time. thirdly, the black sealant is uneven, with passes of the transparent one (it seems that it just gets in the way with some kind of black parchment, but it's bad, or it just stratifies in a tube over time ...). the idea with air pipes from the car also disappears, expensive. all partubki with ribs, smooth parts only under the clamps, but they are short. for a tank you have to buy such pipes from the box, but the price is not small. there was even a company store from a rubber plant in our city (UZEMIK), nothing, only pipes with reinforcement inside, i.e. when cutting, this layer will be very noticeable on the rollers. In general, I'm sad ...

I have matured a small creative crisis. leverage is fully completed. The spring attachment method was borrowed from the papirus forum member, although he had originally planned to use shock absorbers as on the T-54, but because of the high weight, they had to be abandoned. the internal lever is mounted on the shaft with an M3 bolt (everything is stainless), now I don't know how to optimally limit the lever stroke (so that the wheel does not fail without load below a certain level). there was an idea to weld a nut under the lever inside, and screw a bolt into it so that the hat was an emphasis for the lever, but somehow, somehow ... not that. with springs, not everything is clear either. I bought several types in auto parts, the effort is under 2 kg per wheel, only the one in the middle in the photo is suitable, but it is long, I will look for more ...





ps for the future, the way of fixing the internal lever to the shaft needs to be changed somehow. I have shafts from some kind of unrealistically rigid stainless steel, and I just got tired of drilling them. 4 times I had to pick out / gnaw the tip of a broken drill from the part ...



11/04/2015 21:17

# 48

**Fedor807** ◦

check in: 04/18/2015  
 Address: Belgorod  
 Age: 45  
 Posts: 51

Good evening, but as an option PE pipes will not fit on the rollers.  
<http://ttzrt.ru/produkciya/> (not advertising) with SDR11 they are pretty thick. Our drifters also use them.

11/04/2015 21:24

# 49

**kostya1965** ◦

check in: 09/20/2009  
 Address: St. Petersburg  
 Age: 54  
 Posts: 390

I put the same on my tank, only cut it to the right size.

Message from **Iroka**

only the one in the middle in the photo is suitable, but it's long

Message from **Iroka**

there was an idea to weld a nut under the lever inside, and screw a bolt into it so that the hat was an emphasis for the lever,

The correct idea, he also did, was about 60 kg. Success in construction.

11/05/2015 09:38

# 50

**Fedor807** ◦

check in: 04/18/2015  
 Address: Belgorod  
 Age: 45  
 Posts: 51

You can use sheet rubber on the wheel brace. Grind on a lathe. Only the surface is rough.

11/05/2015 20:01

# 51

**Iroka** ◦

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

option with sheet rubber - no, it won't work, it's too laborious and expensive. As for the polyethylene pipes, I thought the technology seems like this - we select a close diameter (slightly less than the required one), heat it and pull it onto the roller, cut off the excess. two but. such diameters should be sought at large bases, since the bays are three meters in diameter and several hundred meters long (and we need a small piece). second, but - plastic is still not durable, although it is quite possible that its resource will last for more than a dozen races. in general, I decided so far not to bother too much, but to look for ways along the way. now all attention is to collect the chassis. metal on the front and rear rollers already rides. in the coming week I will determine the angle pair and gear motors.

11/05/2015 21:40

# 52

**Blackcat\_2** ◦

check in: 01/16/2009  
 Address: Moscow  
 Age: 58  
 Posts: 1,964

Message from **Fedor807**

You can use sheet rubber on the wheel brace. Grind on a lathe. Only the surface is rough.

Just do not sharpen, but CUT. A special cutter is made - a thin knife - a scalpel. Then the surface will not be rough. Rubber sheets (or sheet) are pulled together by a bolt between two round wooden washers. The one that is closer to the front headstock of the machine is of a larger diameter than necessary, the one that is further slightly smaller than the desired diameter. And, lubricating the knife-cutter with soapy water - we cut the rings of the desired diameter. The main thickness of sheet rubber - should be necessary.

However - you can sharpen it, but then you need to dip rubber into liquid nitrogen, which is not always available and very expensive

11/06/2015 09:07

# 53

**vnp125** ◦

check in: 05/19/2013  
 Address: Vladivostok  
 Age: 64  
 Posts: 637

Sorry to interfere. I, generally from waterfowl, but with great interest look through your branch. On a rubber band. Could it be easier to make a mold and vulcanize it from raw rubber? There is nothing complicated.

11/06/2015 19:22

# 54

**Iroka** ◦

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

Message from **vnp125**

..Can it be easier to mold and vulcanize from crude rubber? ...

[SU 101/102 scale 1/10 \(full metal\)](#)

Gearboxes, not wrong, but REDUCERS for the tank.

I'm sorry, I missed this moment somehow, and then I wouldn't have it at all, but I am correcting myself, and ...

More a year ago, when I finally began to scratch the construction of a serious model, I began to work out many points in my mind: tracks, transmission, chassis, how, what and how much. including gearboxes for the chassis.

a small explanation - in most topics on the forum, the tank's transmission is built from the same parts, the angular gear from the angle grinder (grinder) + its small (so we get the transmission refraction at an angle of 90 degrees), + planetary gear from screwdrivers (this way we get very strong increase in torque). pluses of the sea - parts were originally designed for heavy loads, they are relatively easy to get, affordable. if it is not possible to buy a spare parts shop separately in repair services, for example, before the crisis, it was

possible to buy donors in Merlene, the two cheapest grinders for 500 rubles each. and two of the cheapest screwdrivers for 400r. total issue price was under 2000r. (Now, of course, more expensive, but not the point ...). but they also have one big minus - you need to assemble frames for their fasteners, and durable,

and now I was puzzled to find such a gearbox that it combined both angular and lowering (I don't take this into account immediately, since it is almost impossible to do without the right tooling, but it needs a lot + experience). and I seemed to find him. Especially in China, or rather on the pages of Chinese shirpotrep. for example (never an ad): as you can see, there are plenty to choose from. why didn't I, for example, choose one of them? I'll answer, at first the lack of bearings was embarrassing, and in general it is not clear from the photo whether there are at least bushings on them, the second - their reliability in terms of working under load for a long time, the third - lowering numbers are not quite clear, etc.

[Http://www.aliexpress.com/store/group/toy/928064\\_251542448.html](http://www.aliexpress.com/store/group/toy/928064_251542448.html)











All these issues are resolved. something can be clarified from questions to the seller, but the final verdict on their applicability can be obtained only by ordering and independently opening and looking. spend a couple of tr I was strangled by a toad, so I went on a proven path to solving the problem with gearboxes. but I hope that all of the above will be interesting to those who are going to build something and are looking for options for running. it is quite possible for someone that an already finished version of such "Chinese" gearboxes will do.

Thank you all for your attention!

*Last edited by Iroka; 11/06/2015 at 20:03 .*

11/06/2015 20:20

# 55

### Fedor807 ◊

check in: 04/18/2015  
Address: Belgorod  
Age: 45  
Posts: 51

If you decide to use PE pipes, then go to the gas workers or a water canal. pipelines are being built now mainly from PE sections will give I think no questions asked.

11/13/2015 20:37

# 56

**Iroka**

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

we revive the topic,

welded the stroke limiters and ears for the rear springs, previously I decided to stop on the springs in the photo, when the tank is already in full mass - then I will play with stiffness, I can replace the front springs, but the tank is already on its wheels))) levers for the rear driven roller are also welded, while I'm thinking how to pull it - with a rigid spring or generally rigidly fasten.

Last week I solved financial issues. original engines for a hitachi screwdriver are able to catch up with the price, analogs are cheaper, but also can scare (1500r. one original, or 900r. Chinese, as you can see prices are close to the price of cheap brushless motors). therefore, I decided to make the gears myself from brass on a lathe, the engines themselves were purchased at an electronics store (for now, 6c, I will probably be able to change them in the future). Filed in 300r. instead of 2000-3000r. UShM gears also cost a lot - 700-1000r. set. I ordered Chinese on Ali for 600 rubles. both sets for makita, now the question is when they will come ... I

drove while the gears and gears, in principle, they almost do not make noise, let's see how many plastic 3 pieces are stretched ... finally the metal came to the front and rear rollers, we will do them. photo along the way ...







11/15/2015 20:59

# 57

### Iroka ◎

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

I decided to rebus with a bandage for skating rinks. walked through the merlene and found it all the same. the hero is called - a sealing ring for a siphon, the sizes on a photo, the price is 5 rubles. one BUT. his profile is not rectangular, one side is beveled, so you need to grind it on the machine. Thanks to the one who prompted about the correct cutting of the rubber above, I sharpened a quick cutter under the knife and cut off all the excess.

the photo is already finished result. the thickness of the brace is 2.5 mm. Now I'm thinking about what to glue it on the ice rink - 88 or cyacrine. it's necessary somehow neatly. while I decided to try to gently bend the bandage through the syringe with game 88 and apply it under it. first coat the rink with glue and put on the bandage does not work, as the bandage should sit with a slight interference ...





I "cut through" two holes in the housing under the drive shafts and was saddened. the shafts will be very close to the bottom of the tank, not only will the shurik reducer have to be set at a decent angle (tilted toward the nose of the tank), the housing of the internal bearing still does not fit. while I'm rolling the idea of installing another gearbox to raise the axle higher ...

**SLESAR** ◦

check in: 04/18/2013  
 Address: Voronezh  
 Age: 51  
 Posts: 165

In the shops for fishermen, rubber boat glue is sold in a can of 4805, glue is atrocious, I tried it myself.

11/16/2015 00:55

# 59

**YAKOV** ◦

check in: 03/12/2013  
 Address: Sumy, Ukraine  
 Age: 43  
 Posts: 173

Message from **Iroka**

what to glue it on

Enough conventional rubber glue, I usually use the "Moment".

Message from **Iroka**

somehow neatly.

Using two thin screwdrivers (sentries are great). Insert the first screwdriver between the bandage and the roller, squeeze the bandage and "insert" a drop of glue into the gap formed with another screwdriver, smear it there and pull out the screwdrivers. Wipe out excess glue immediately. Usually three to four such strokes per wheel diameter are sufficient.

11/16/2015 06:50

# 60

**Iroka** ◦

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

Well, all of the above adhesives are 88 varieties ...

12/08/2015 13:52

# 61

**Iroka** ◦

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

I will unsubscribe, otherwise people will think that the next tank project was blown away with an unpleasant sound ...)))  
 the project went to the finish line, I think that within a week the tank (chassis) will already go under its own power. seriously stalled on the assembly of the transmission, I had to adjust a lot of parts, sharpen, drill, assemble and disassemble again. and so fit after fit. also stalled at the fundamental moment, the tracks, or rather the crest (let me remind you that I have it both as a centering track and as a hook for the drive roller). after long walks on the walls and ceiling, I decided to order laser cutting, it took at least two weeks to find a suitable office and agreed on the price and sketch, I also ordered a sample of the roller of the rink itself (an insert from the plate that will catch all the ridges on the tracks), although carvers did not give any guarantees. wheels are now in bandages. I will not upload photos yet - the tank is scattered after the next fit of the aki as an explosion-scheme ...)))

12/11/2015 09:40

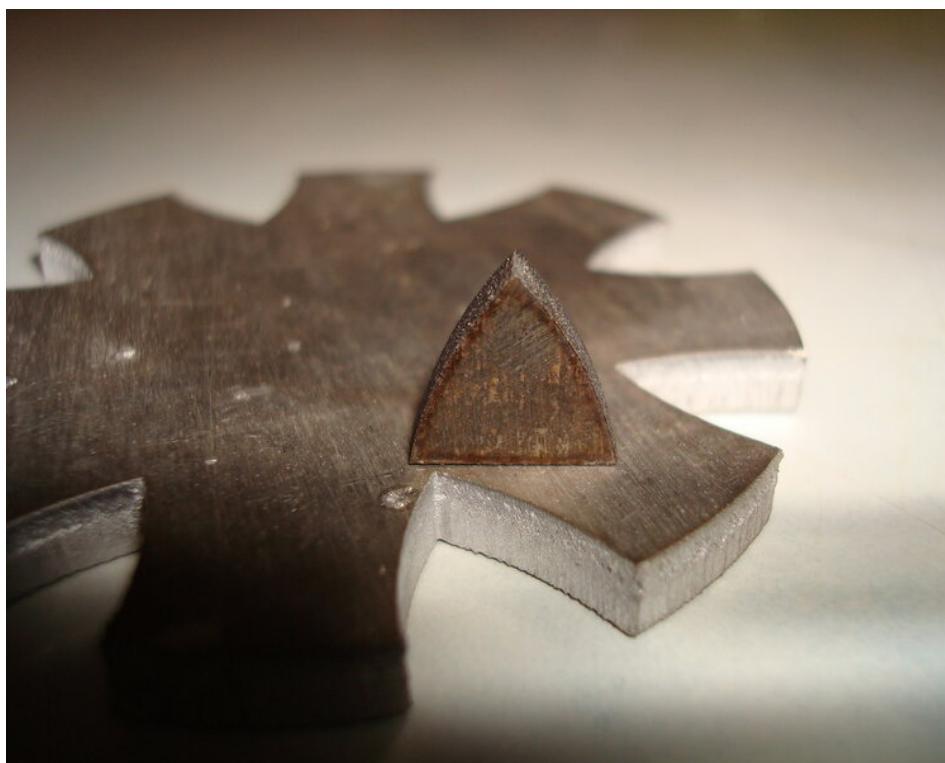
# 62

**Iroka** ◦

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

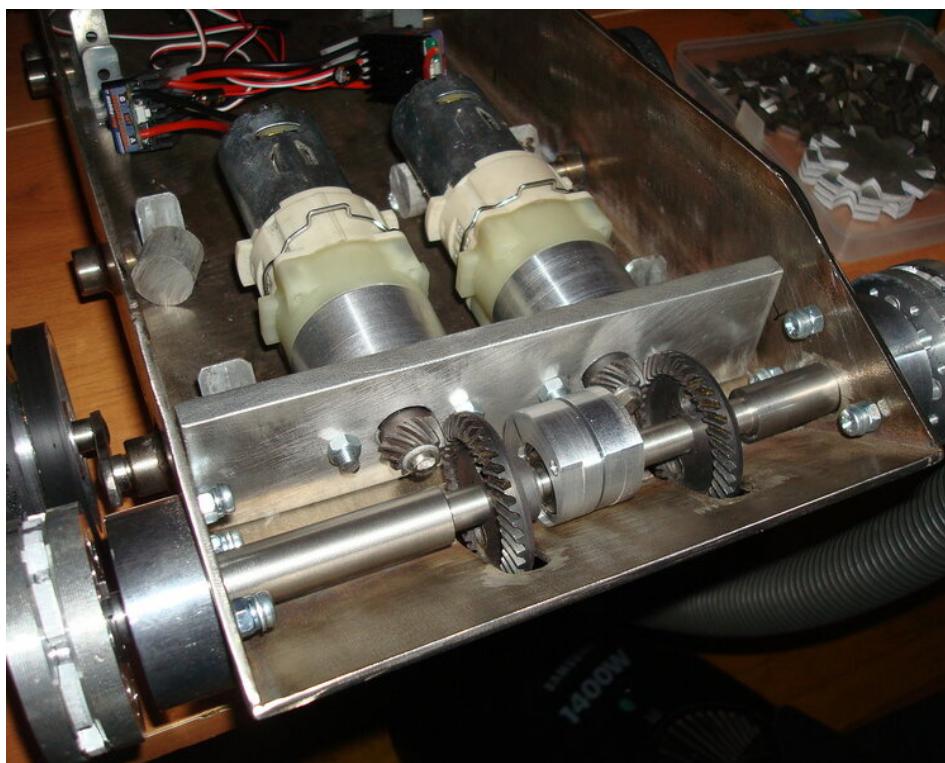
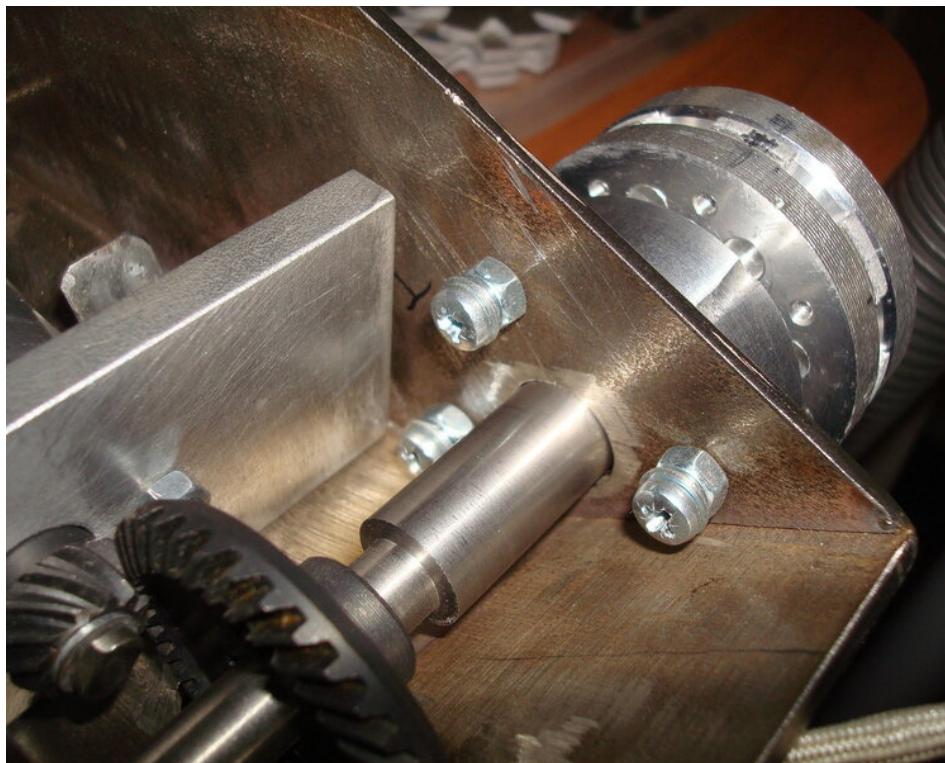


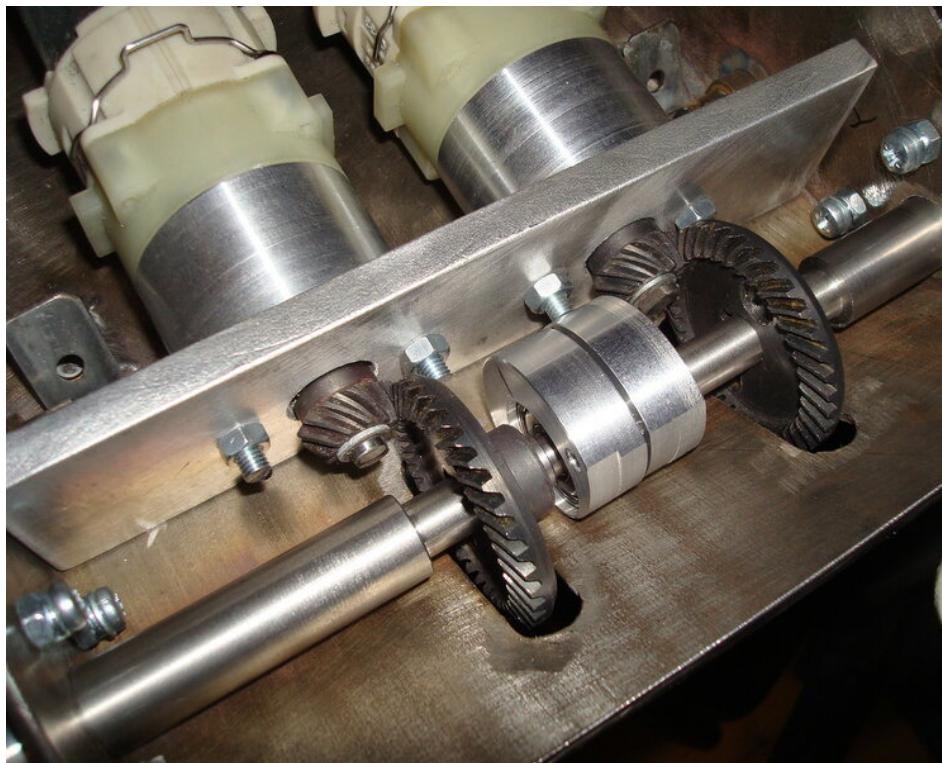














it remains to install the engine mount and bearing housing of the drive shafts as well as the axis of the rear roller. I had to abandon the eccentric, later I will explain why. the ridges are ready, it remains to weld to the gusli and make friends with the drive wheel. in the last photo, the quality of domestic plumbing rubber. will have to bring makeup with black sealant ...



**Blackcat\_2** °

check in: 01/16/2009  
 Address: Moscow  
 Age: 58  
 Posts: 1,964

Yes, do not direct any makeup. Firstly - it will not be visible when you put the tracks. Secondly, these are, as it were, traces of the "natural" wear of rubber bandages during operation. Not quite similar, of course, but quite authentic. And the sealant - well, most likely will fly off at the first pokatushki, if it is not glue-sealant.

12/11/2015 23:32

# 64

**Iroka** °

check in: 11/13/2010  
 Address: Ufa  
 Age: 32  
 Posts: 959  
 Diary entries: 6

OK. persuaded))) I myself somehow sadly reacted to the topic with sealant. it's not at all because it will fly off, it must stick to the rubber dead, especially since there are "natural" roughnesses. it's just, it's just some kind of "painting over the jambs," not mine. the photo shows that not all bandages are like that, but most of them.

promised about the rear clown. he shook my nerves. Initially, I was going to make the rear roller on the lever, but burst - I made the lever larger than the diameter of the wheel, i.e. he would touch the caterpillar with his shoulder, I cut it as much as I could (the last photo), but now the wheel turned out to be too high, after trying on with the upper part it turned out that he was also far from the rear "mudguard" even close, and the base is slightly longer than it is on the scale), it turned out to be optimal if the rear roller ... is already outside the lower trough. so I decided to put it fixedly on a thick plate. track tension is planned by adding / removing tracks.









in the fourth photo, the retaining ring. someone asked me how the wheels are fastened, so on such and similar rings, so no nuts are needed. retaining rings in my design in general a lot

ps I tried today an airplane channel mixer - it works, though it's not quite clear, the sensitivity and synchronism of the motors are floating, it's not so critical, but it will have to be solved somehow. but the main thing is that the reversal is carried out as wanted - by rotating in different directions.

12.12.2015 19:54

# 65

**BoBaHbI4**

check in: 04/09/2013  
Address: Moscow  
Age: 37  
Posts: 91

Konstantin, everything is fine, continue on, small non-copying is generally invisible on your model. I personally really like and, I think, not only me.

12/19/2015 20:27

# 66

**Iroka**

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

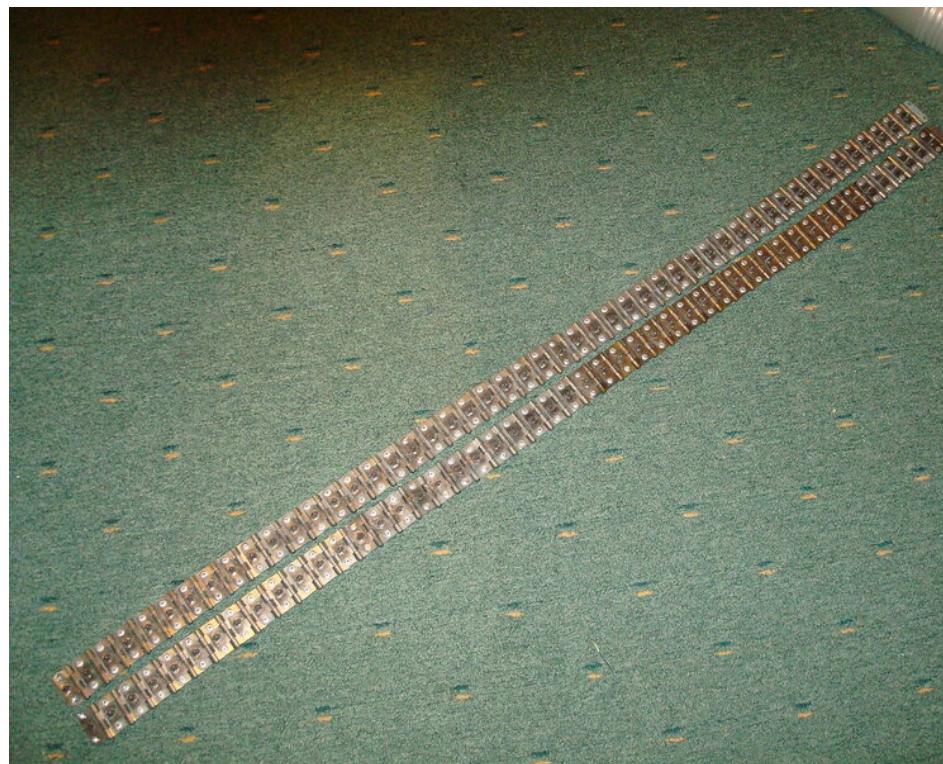
the tank went ... no. not this way, the tank GO! Hurray COMRADES !!! .... but in order ...

I cooked the tracks. but with them, as the song says, the problem also did not happen. background. the stub of the caterpillar that I cooked a year ago was assembled from the loops left from the assembly of greenhouses, rabbit cages and other things, and those loops were bought in a rural store. back in the summer, being in transit in that store, I wanted to immediately buy loops of pieces of 100, but they always do not exist, then there were 10 in all. Last weekend I went to the city store and saw exactly the same loops, the price

really was higher (10 rubles instead of 6 rubles in the village), but immediately took 120pcs. came to the country, welded a test piece of 10 pieces and let's try on the drive wheel. what for nafiq - does not approach and all! don't fall at all. the first reaction is all the calculations for the dog under the tail, incorrectly split the lead star, redo everything, again standing behind the machine for several days .... terrible sadness. He did not immediately overcome it. but after checking the sketches I still realized that the reason was different and it showed up when I put together a one-year-old piece of gusli and a fresh one. the loops are not the same! the new ones differ from the old ones by the distance between the holes, a little, less than 1 mm, but this is enough to make only two adjacent ridges fall into the leading star, the third one already catches and does not climb ...

in general, I went with a bow to the village boutiques, asked me to bring 100 loops specially for me, took them 6 rubles a piece in three days, the ones that I took in the city I returned today to the store, they accepted without question what was nice)))

In the photo below are two tracks. 49 loops each. each comb is welded non-contact in argon with a stainless steel additive. then each crest is honed with a petal circle and licked with a metal brush. the weight was small, I just can't weigh it, but not more than 1.5 kg each. everything is fastened with rivets, according to a long-standing advice from papirus using m4 washers. in the last photo, a comparison of the "right" loops with the wrong ones I tried to correct the wrong ones for the sake of interest - I fastened it with welding and not with rivets. you can see how much the holes had to be moved so that they at least slightly coincided with my sizes. the difference between the loops is only in the inscription ("metal" didn't fit on me) and subtle sharp edges at the corners (there are none, the edges are smooth on me that didn't fit).









ps I wrote for a long time like that, just pent. when I was sitting in the country and thinking what to do with a hundred of "not so" loops - I recalled a topic here on a branch where a person also cannot buy / buy loops because he did not immediately buy everything. so comrades, designers, look what you buy, two completely identical loops from different stores may be completely different)))

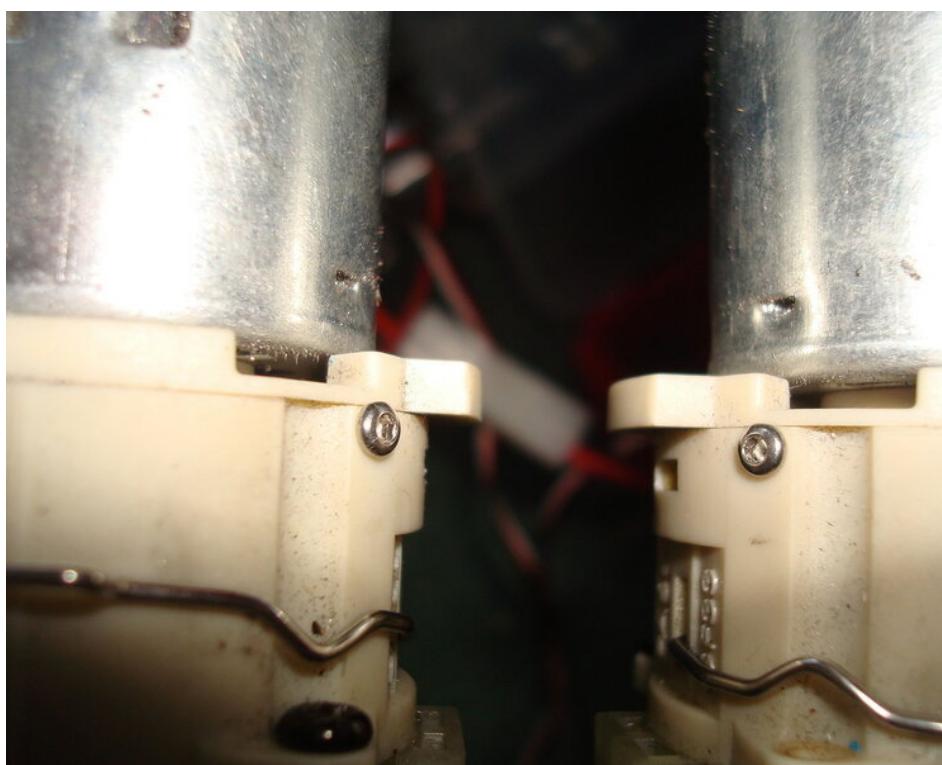
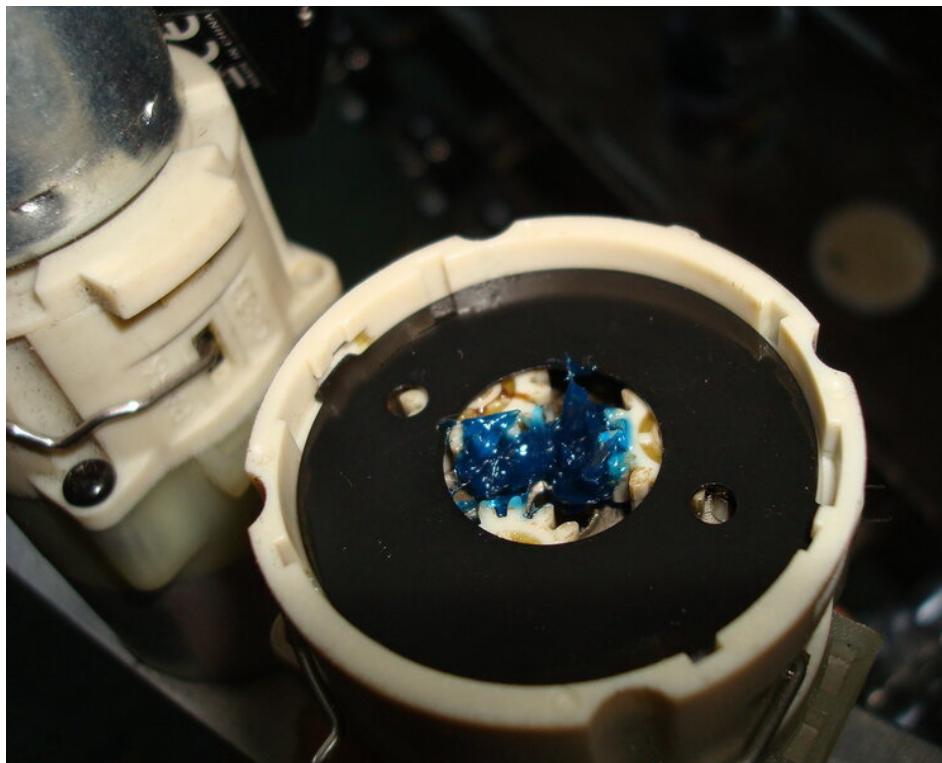


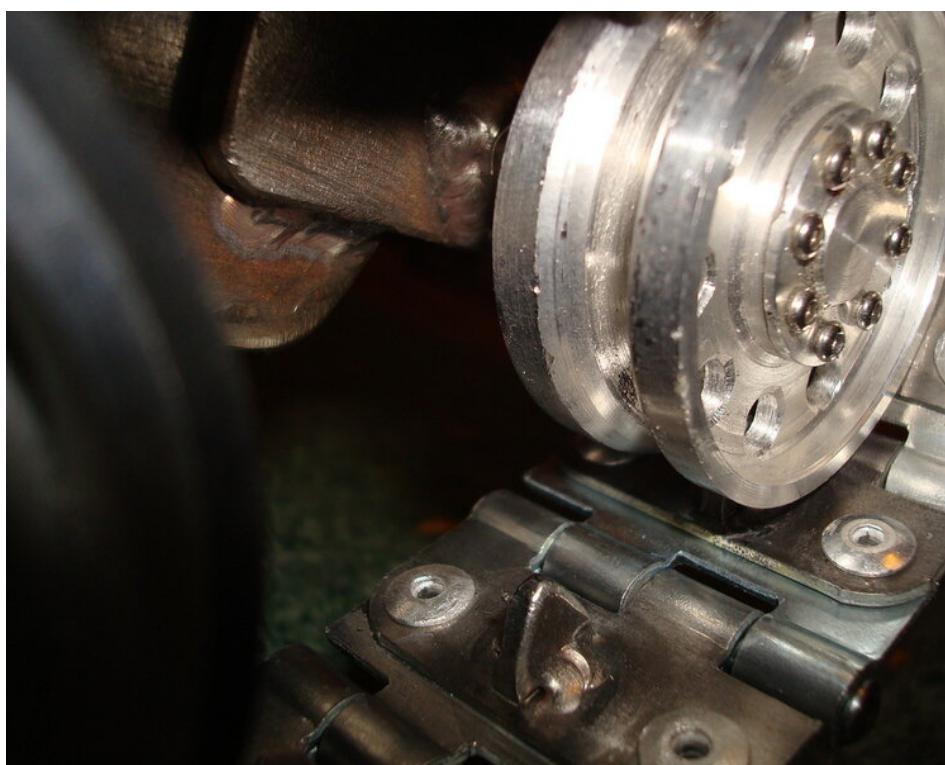
**Iroka** ◎

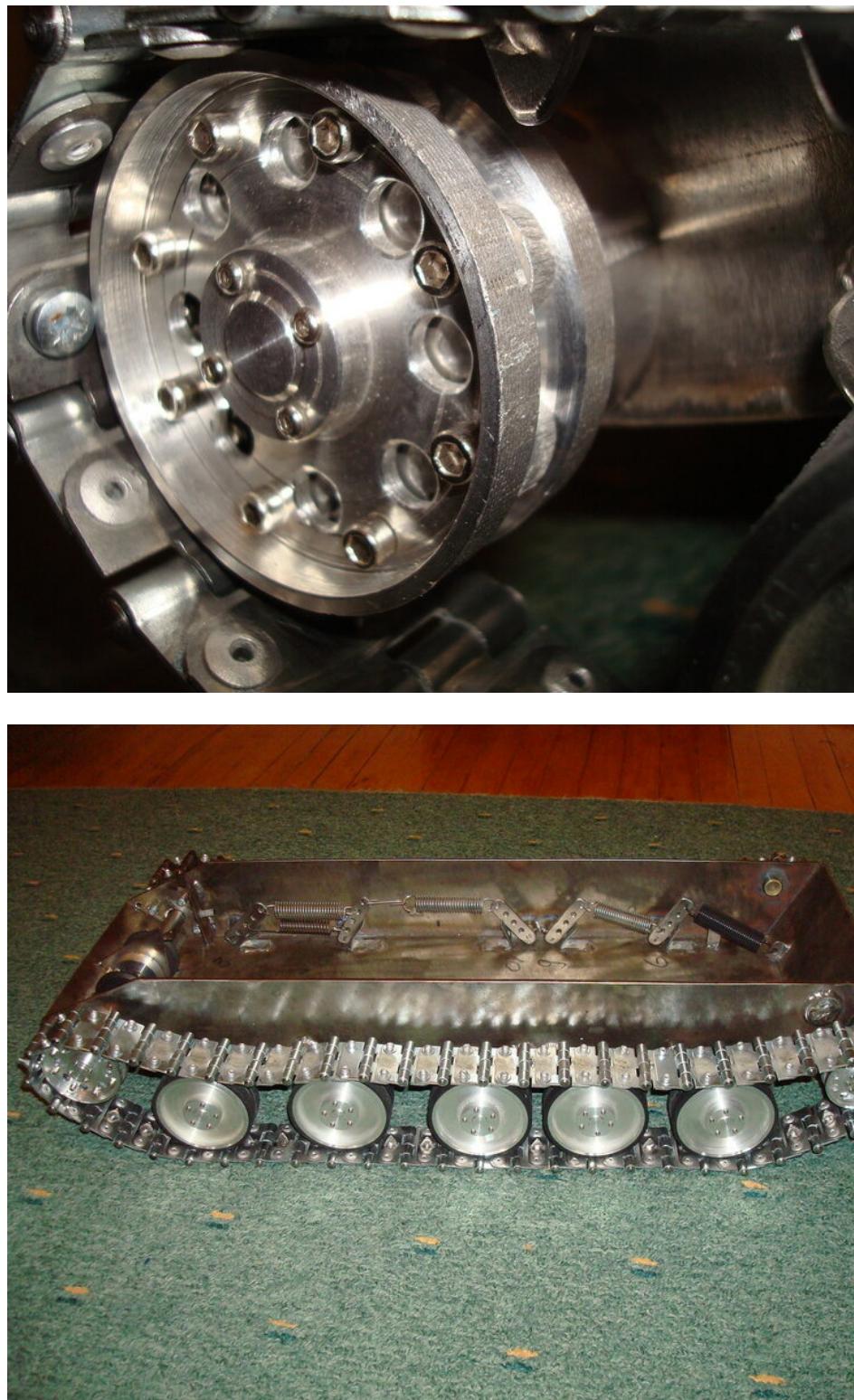
check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

finished the chassis. put o-rings on the levers of the track rollers (rings for keyboard keys instead of the originally planned automobile ones), and greased them with silicone grease. at the same time he leveled all the wheels and levers - they were a little led after all welding work. I hammered the screwdriver gearbox with manol-based molybdenum grease (for some time I have refused lithol) and set the limiters - two bolts each so that the engines would not pop up. installed snap rings on the drive shaft - before that there were temporary huts in the form of distance bushings. a key from a stainless steel sheet, a groove under it - a grinder. the photo shows welded mounts for bearing housings and gear motors. drive and rear roller - grind the central edges under the cone so that the caterpillar crest goes smoothly even with a slight skew. due to the fact that the ridges are still not strictly in line, but with a difference of +/- 0.5 mm, the central grooves on the rollers are increased to ~ 4.5 mm (ridge thickness 3 mm). Well, in the last photo - the chassis with a dressed track (now a little different, but more on that later). tomorrow I will describe the problem I ran into - poor gearing with an asterisk and how to solve it ...









12/20/2015 23:54

# 68

**Den4ikVLZ**

check in: 06/08/2013  
Address: Volzhsky city  
Volgograd about  
Age: 31  
Posts: 33

BEAUTIFUL!!! it would seem that some loops are stamped in their own way, Konstantin is still lucky for you, I have loops that look the same as yours but have a jamb, the axes are also riveted on each side, but the PPC axes are not solid but consist of two half, each is slightly clamped by the loop itself, which, when used on the air vents, eliminates the loss of axes, but when the loops on the goose bar were not run for a long time, the axes began to climb

out from both sides. And in all stores the loops are only of this design. So I'll probably replace with nails and make the shoe look as if on 34ke so that self-propelled nails get in place. You seem to have notches on the hinges for clamping the axles, probably one-piece.

12/21/2015 18:27

# 69

**Iroka** ◎

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

Message from Den4ikVLZ

... Here I will probably replace with nails ...

thank! on my 54-ke, the harp was made of piano loops sawn to the right size, the axis was a galvanized nail. nails crawled out a little from the loops so that together with the hat they form a hook for the leading star. then the truth I did not have welding in argon - cooked with a piece electrode.

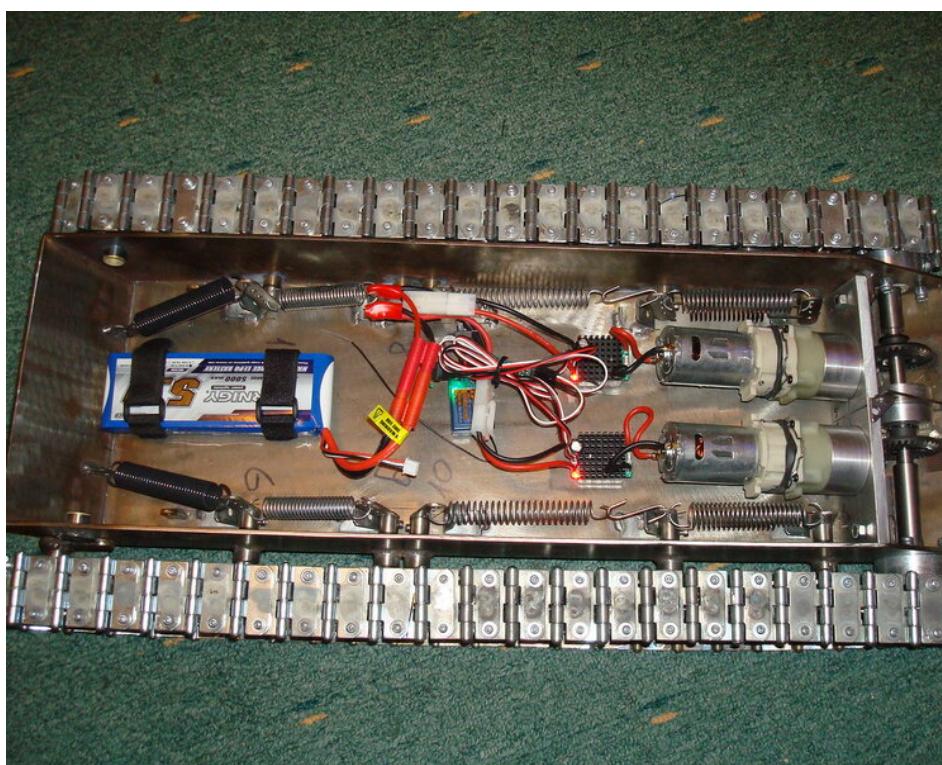
before that was the final assembly of the chassis. it was the turn of my two finish messages!

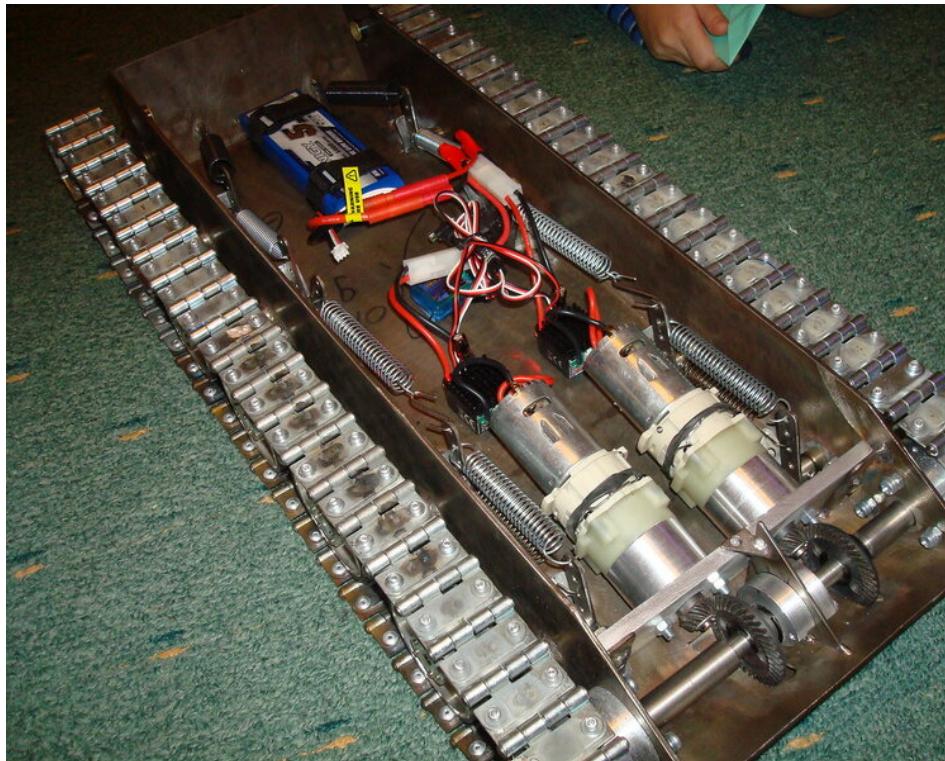
1. The problem with the drive roller is solved, now the hook is clear, and it is under load. the length of the tracks was reduced to 48 pcs. (removed one track each - so the track was pulled, it was impossible to make the caterpillar so that the caterpillar just hung in any way, the front-wheel drive affected, when moving the caterpillar sagged very much between the drive roller and the first support, and slipped)

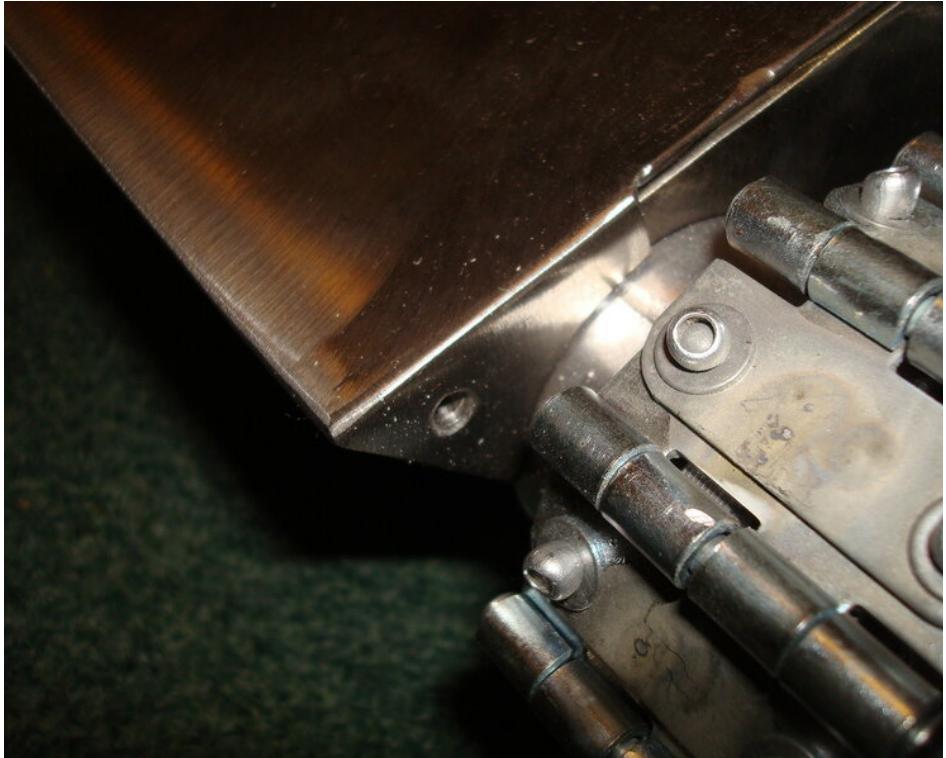
edges of the leading star are sharpened (in the photo, the penultimate version, now it has sharpened even more).

on the body - lotions are made to fix the upper and lower parts. the back of the upper part has a kind of hook at an angle, just welded two stops on the sides so that it does not slide into the side, two "fangs" with through holes in the front, while I'm thinking how to fix it with short bolts or come up with some clips. in front of the bottom on the trough I welded holes for the gears, no matter how hard I tried, the metal was a little led, but not critical, it was not noticeable from above. the levers of the rear rollers are welded onto the plates and half taken out of the trough, and the scarves are also welded so that they do not bend over under heavy loads.

the electronics are pre-installed on Velcro, the battery is also one so far. I think so far how to take out the switch and is it worth it to put the unit on two batteries and blowers. Now I'm preparing a video of our first races ...)))

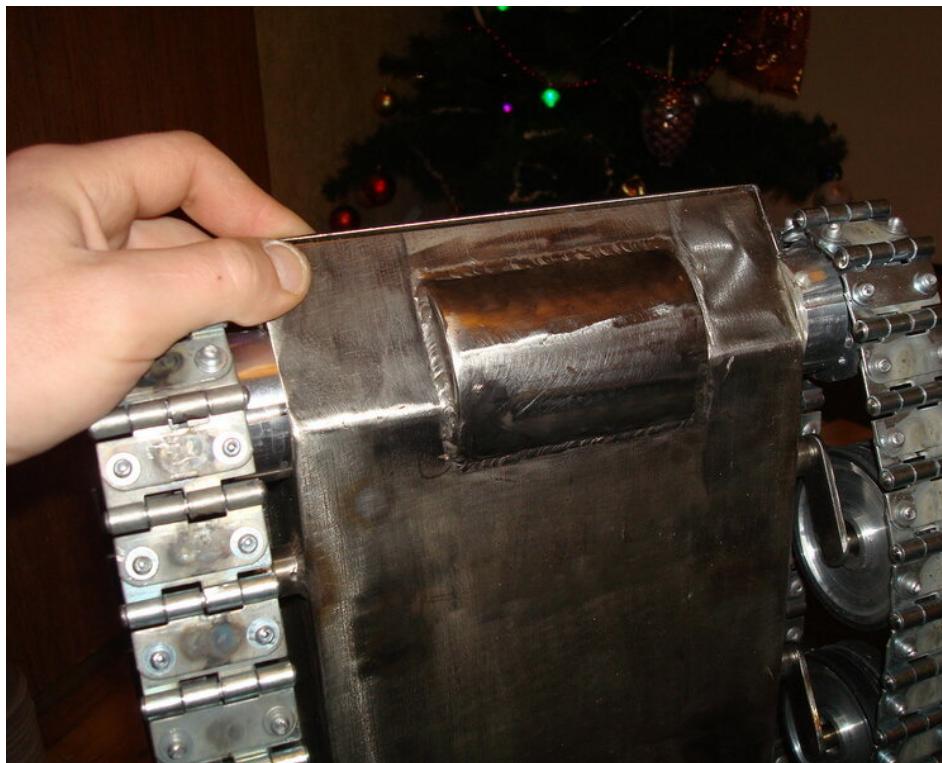












12/21/2015 20:17

# 70

**eugene monks** °

Great!

check in: 10/06/2011  
Address: Moscow  
Age: 42  
Posts: 739

12/22/2015 23:20

# 78

**eugene monks** ◦

check in: 10/06/2011  
Address: Moscow  
Age: 42  
Posts: 739

Respect and respect to the master, well done, excellent work !!!

12/23/2015 17:41

# 79

**Iroka** ◦

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

today was a tantrum. I could not stand it and began to look for what to put power on 12V. with the regulators it's clear - I put the radiators so that they don't boil (although they are designed for 2 cans of lithium-polymer batteries, that is, at maximum 8.4V, but also in the park and in the themes I met that people put on 12V (with lead batteries), puts radiators and regulators do not die), but with engines ... like so, I have a millionaire city and horseradish where you will find motors for 12V screwdrivers (540, 775 I bought when I assembled the gearbox, but they have a big size and a shaft 5mm), the people that every time buys new shurikov after jerking covered ?????????? generally found in one place but at a boring price - 650r. each and go to hell on the horns. and then, as usual, it dawned on you! I'm going to Merlin, I'm taking a couple of automotive compressors for 306 rubles., ps By the way, such an autocompressor can be used for all kinds of crafts - a ready-made engine assembly with an engine and a good lowering, for example, for cars and trophy models,

I



I've attached a detailed photo. I've got a 12V car compressor, put the pressure on the wire 17.2bar and run it in. engine heating disappeared, a little warm, according to the ammeter, the battery gave 7A (at 7.5V) to two regulators at the first speed at maximum gas, 1 speed unchanged, the second did not pull - there is not enough voltage of 2 cans of a lithium-polymer battery, so Now you have to buy lead on 12V and here you **need experienced advice!** I looked like this





or look for some other? such batteries still have markings and price differences, which is better to take? there is another option with lead batteries serviced by 9A / h, which go to scooters and other small

equipment, but the height of the tank will not allow this, even if I cut a window in the upper case ... who advises what ???

12/24/2015 13:03

# 80

**avk45**

check in: 01/20/2014  
 Address: Moscow  
 Age: 47  
 Posts: 17

not enough voltage 2 cans of lithium polymer battery

And if you put three cans?

Locked topic

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" How to reduce the number of hits before killing on vstank? | BMD-1 1/8 "

 New topics

### **Hybrid RC Topol-M (MZKT-79221) 16x16 1/10 scale based on the Krohpit ATV chassis**

from Krohpit in the Trucks, construction equipment section

Replies: 112

Last post: 01/18/2018, 9:17 p.m.

### **Продам I sell wheels, tires for highway / drift, wheels assembled 1/10 scale new and used.**

from Franzhuz in the Flea Market section. Car models - accessories

Replies: 21

Last post: 02/03/2016, 18:45

### **Knight DT-10P Dolgostroy scale 1/10**

from sergey27rus in the Trucks, special machinery section

Replies: 51

Last post: 05/02/2015, 19:53

### **Project Su-27 UB scale 1:10.**

from gizma in the Copy section, half copies

Replies: 2

Last post: 02.21.2015, 21:46

### **Help build an LED beam for a 1:10 scale**

by RAOhnik in the Home-made Electronics, Computer Programs section

Replies: 10

Last post: 12/19/2014, 9:10 PM

Tags for this topic

[rc tank, su 101](#)[View tag cloud](#)

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### **Forum Rules**

[- Readability](#)[- Russian \(RU\)](#)

Current time: 23:08 . All times are GMT +4.

12/21/2015 20:27

# 71

**Iroka** ◦

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

video of the first race. snow immediately fell on the tank, as the snow on the warm metal first melted, and then it froze, but it was even more interesting. on all videos except the last one, the speed of the screwdriver is set to the first speed since I still don't know what will be the heating of engines and regulators. the result is warm, the hand calmly holds. therefore, in the last video I already set 2 speeds (it can be seen in the previous photos - I put on an elastic band to fix the speeds, while I'm rolling the switching mechanism with the help of a servo in my mind, then it will be possible to bring the speed control to the 3 channel of the equipment). Let me remind you that now there are 6V engines and a 8V lithium-polymer battery. if you remodel the power supply to 12 V and install brushless systems, then the speed will be just a hurricane, but I probably can't do it financially .. (((so, he climbs into the curbs, it also rides well in the snow, although of course it gets completely loose and fresh. caterpillars do not fly off, snow does not clog under the rollers. the accident occurred only on the penultimate video, but there I already barbarously put the tank almost on the edge - as a result, the caterpillar was nevertheless pulled from the rear roller.

(снег) Металлическая полукопия танка СУ-101 в масштабе



(подъем) Металлическая полукопия танка СУ-101 в масш



( бордюр) Металлическая полукопия танка СУ-101 в масш



(2 скорость) Металлическая полукопия танка СУ-101 в ма



ps filmed with his son. clicks are clearly audible on all videos - it's a bit hurt by the double springs on the first track rollers

12/21/2015 20:39

# 72

**evsykov** ◦

check in: 08/14/2013  
Address: Mineral water  
Age: 34  
Posts: 103

My congratulations!!!

12/21/2015 9:28 PM

# 73

**eugene monks** ◦

check in: 10/06/2011  
Address: Moscow  
Age: 42  
Posts: 739

If not for the night it would have been much more interesting!

It's better to see during the day.

Well done Well done,

12/21/2015 22:05

# 74

**Iroka** ◦

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

tomorrow we plan to leave, today it was simply unbearable, and all preparations were finished only in the evening ...)))

12/21/2015 10:17 PM

# 75

**eugene monks**

check in: 10/06/2011  
Address: Moscow  
Age: 42  
Posts: 739

We wait !

12/22/2015 00:03

# 76

**papirus**

check in: 11/09/2009  
Address: Dnepropetrovsk  
Age: 42  
Posts: 1,038  
Diary entries: 1

It is necessary to somehow remove the "growth" on the front lower sheet, and then it catches the eye. I would suggest making another inclined bottom plate on top, at a different angle.

12/22/2015 9:10 PM

# 77

**Iroka**

check in: 11/13/2010  
Address: Ufa  
Age: 32  
Posts: 959  
Diary entries: 6

second test run. it's inconvenient to steer and take pictures yourself))). plus temperature and wet fresh snow. here the results are a little worse. noticeable heating of the engines, it is felt that the load has increased on them with sticky snow, they no longer turn on the second speed - they will not withstand it. drove about 20-30 minutes. there was a moment when the snow hid in one of the stars and one track roller - had to be cleaned. it's walking in the snow, but it is pushed in front of itself by a "snowdrift", when it's getting big it starts to slip, for this reason I don't want to cover the "growth" with anything - then there'll be a snow shovel))) I got involved in rigging the tank — caps, hatches, guns and other things. I'll cast a gun mask from aluminum according to the foam model, while I'm looking for a suitable pipe for tanks, I don't want to make them solid, there will be a lot of weight.

CY-101/102

