

PRODUCT INSTRUCTIONS

Thanks for purchasing this product from RMW.

In this manual you find all the information you need to assemble and paint the model.

PRODUCT DESCRIPTION

<p>SPMT, Self-Propelled Modular Transporter, 4 or 6 axles, with or without PPU.</p>	<p>Product No: 040400xx</p>
<p>This is a model of an SPMT, either in 4 or 6 axles combination. The Pendulums work, so various positions (normal, lowered, raised) platform can be simulated. They can also rotate, so sideways movements can also be simulated.</p>	<p>Scale: 1:87 / H0</p>
<p>Example information: In use with the major heavy lift contractors like Mammoet, Sarens, ALE etc.</p>	<p>Type: kit assembly & painting required</p>
<p>This scale model product comes in several variations: product 04040001: 4 axles + ppu product 04040002: 6 axles + ppu product 04040003: 4 + 6 axles set + ppu product 04040004: ppu only</p>	<p>Danger! Small parts included</p>
<p>More information can be found via Google (images): Search for 'spmt'</p>	<p>V1.8.3.0</p>
<p>Example photo:</p> 	<p>Material: semi transparent plastic (Shapeways 'Frosted Ultra Detail')</p>
<p>Not included in this kit:</p> <ul style="list-style-type: none"> - Pins for the axles (use 0.8mm brass rod or paperclip, cut to the needed length) - 	

PRODUCT COMPONENTS LIST

This product consists of:
 For product **04040001 (4 axles): 2** parts each sprued
 For product **04040011 (4 axles + PPU): 3** parts each sprued

For product **04040002 (6 axles): 2** parts each sprued
 For product **04040012 (6 axles + PPU): 3** parts each sprued

For product **04040003 (4 + 6 axles): 2** parts each sprued
 For product **04040013 (4 + 6 axles + PPU): 3** parts each sprued

For product **04040004 (PPU) : 1** parts sprued (in total **23** separate parts (including spare parts))

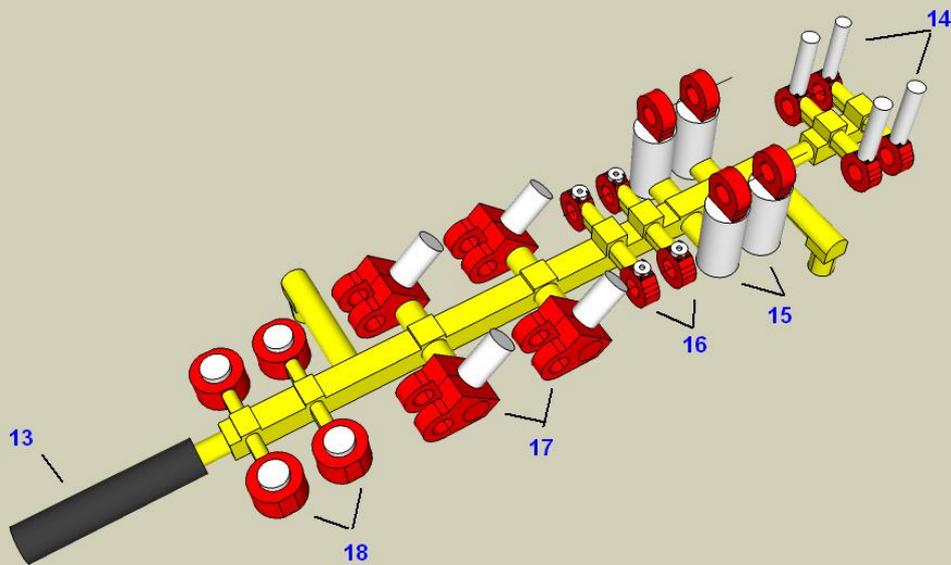
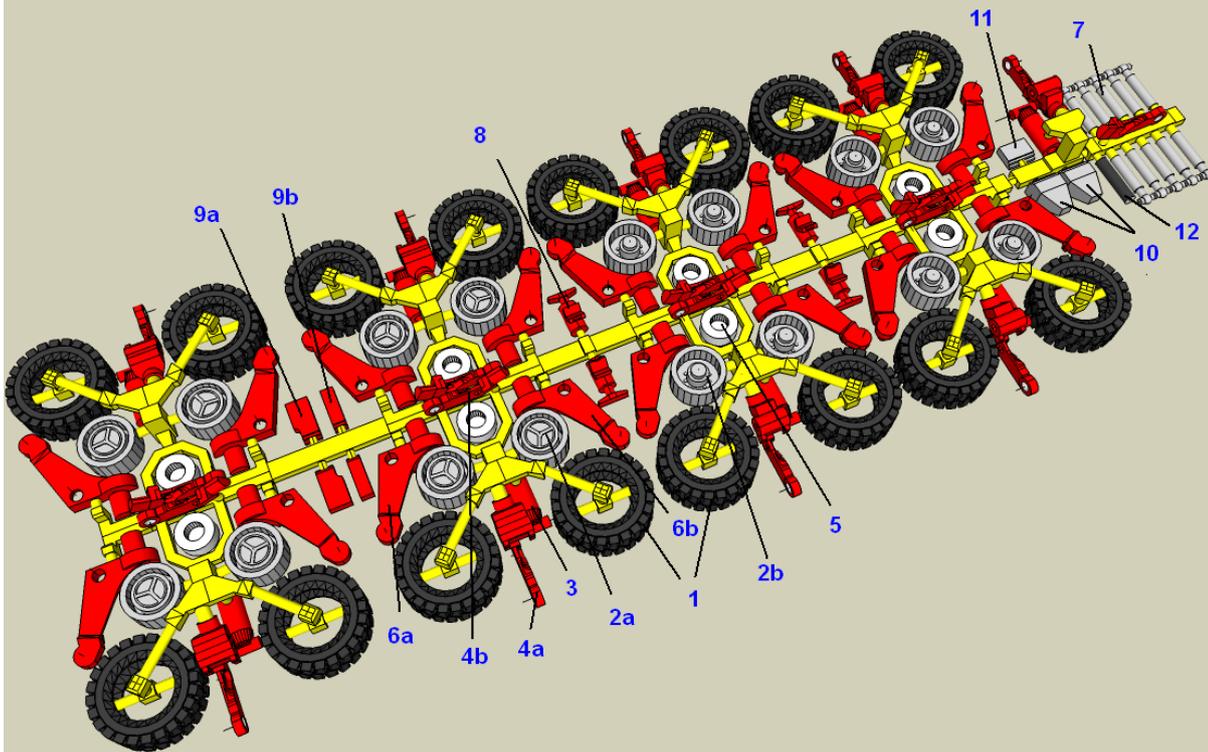
No	Description	Paint advise	Product No 0404xxxx
4A	Main body for 4 axle spmt [for part12: 1.5mm, for pendulum: 2.2mm, for part17: 1.2mm] (1x)	Red, Blue etc.	0001/0011/ 0003/0013
4B	Main body top cover for 4 axle spmt (1x)	Red, Blue etc.	0001/0011/ 0003/0/013
6A	Main body for 6 axle spmt [for part12: 1.5mm, for pendulum: 2.2mm, for part17: 1.2mm] (1x)	Red, Blue etc.	0002/0012 0003/0013
6B	Main body top cover for 6 axle spmt (1x)	Red, Blue etc.	0002/0012 0003/0013
C	PPU [for part13: 1.5mm, for part 15: 0.8mm] (1x)	Red, Blue etc.	0011/0012/0013/ 0004
D	PPU Bottom (1x)	Red, Blue etc.	0011/0012/0013/ 0004
1	Tyre (16x or 24x)	Black or Dark grey	0001/0011/ 0002/0012/ 0003/0013
2a	Rim for power wheel [0.8mm] (8x)	Silver or Aluminum	
2b	Rim for unpowered wheel [0.8mm] (8x or 16x)	Silver or Aluminum	
3	Cylinder [1.2mm] (8+1x or 12+1x)	Red, Blue, Black etc.	
4a	Pendulum lower part (side a) [axle: 0.8mm, for part4b: 1.2mm & for part7: 0.8mm] (8+1x or 12+1x)	Red, Blue etc.	
4b	Pendulum lower part (side b) [for part4a: 1.2mm & for part7: 0.8mm] (8+1x or 12+1x)	Red, Blue etc.	
5	Knob [2.0mm] (8x or 12x)	-	
6a	Pendulum top part (side a) [for part3: 1.3mm & 1.2mm] (8x or 12x)	Red, Blue etc.	
6b	Pendulum top part (side a) [for part3: 1.3mm & 1.2mm] (8+1x or 12+1x)	Red, Blue etc.	
7	Piston (10x or 16x)	Silver or Aluminum	
8	Brake cylinder (4x or 6x)	Red, Blue, Black etc.	
9a	Cabinet (2x or 4x)	Red, Blue etc.	
9b	Cabinet (2x or 4x)	Red, Blue etc.	
10	Cabinet (2x)	Silver or Aluminum	
11	Cabinet (1x)	Silver or Aluminum	
12	Connecting rod between spmt's (2x)	Black	
13	Connecting rod between spmt and ppu (1x)	Black	0011/0012/0013/ 0004
14	Piston for PPU [0.8mm] (4x)		0011/0012/0013/ 0004
15	Cylinder for PPU [0.8mm] (4x)		0011/0012/0013/ 0004
16	As 14, without piston (provide piston self) (4x)		0011/0012/0013/ 0004
17	Spmt connector [0.8mm] (4x)		0011/0012/0013/

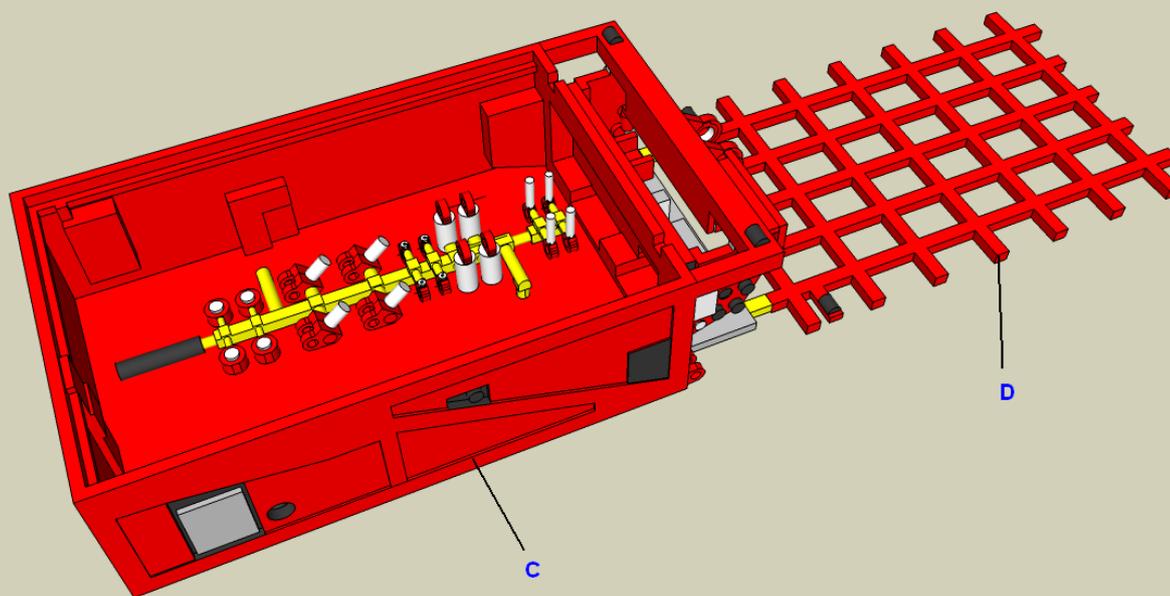
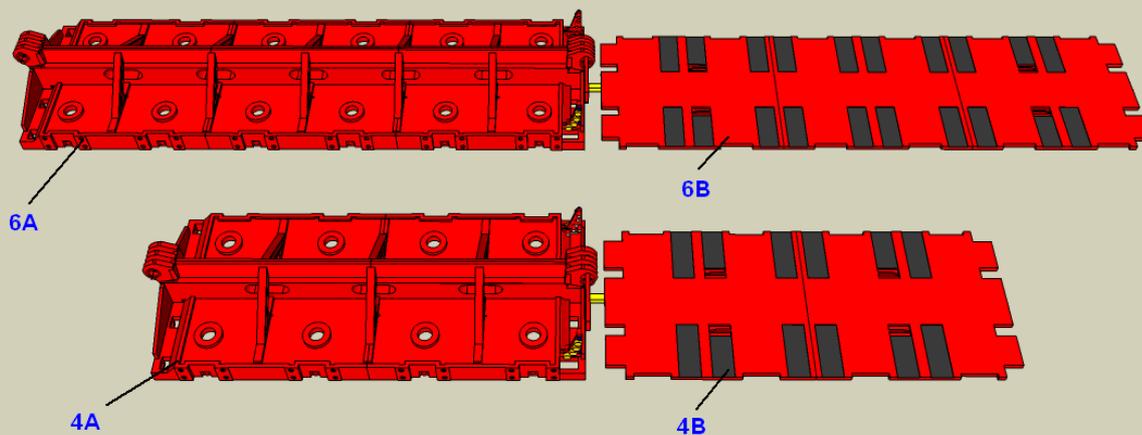
			0004
18	Knob (4x)		0011/0012/0013/ 0004
19	Spacers (4x or 6x or 10x)	Red, Blue etc.	Sold separately
20	Connectors	Silver with Red, Blue etc.	Sold separately
	This kit comes with various (small) spare parts!		
	In [] are the holes diameters in that part		

PRODUCT PHOTO:



After painting and
assembly
04040011





GENERIC INSTRUCTIONS

Cleaning:

If you have a ultrasonic cleaner (like from Conrad or Harborfreight), use that one with cold or luke-warm water to which you have added some dish-washing liquid to clean the parts for **3** minutes (remove the waxy residue). Alternative, clean the parts by hand in water with dish-washing liquid. You can use a soft toothbrush. Do NOT use any cleaner containing acetone, acetate or thinner containing methyl ethel ketone (MEK) as this might damage the model.

For ultra-sonic cleaners, refer e.g. to:

<http://www.conrad.de/ce/de/overview/0601120/Ultraschallreiniger>

<http://www.harborfreight.com/catalogsearch/result?a=ultrasonic+cleaner>

Separating parts:

To separate/cut off all parts from the sprue, you either use a hobby-knife or a small scissors.

If you remove the complete sprue from the parts, you might find it more difficult to hold them for painting; so leaving a piece of the sprue to each part might be beneficial (only remove the remaining sprue piece after painting); however, you will not be able to do a test assembly if you leave a piece of the sprue to the part.

Painting:

Ordinary **acrylic** paint as found in car shop accessories can be used. First (spray) paint a white base layer, for this, a modelling spray is advised (e.g. from Tamiya). Then multiple layers of your preferred color. After assembly and finishing (decals), use a clear lacquer layer of paint to seal.

Glue-ing:

Only use 'super-glue' (Cyanoacrylates)

Storage:

Dust-free at room temperature, protect from UV radiation

Working order:

First clean the product carefully. Remove remaining oil, grease and wax.

Separate all parts from the sprue if advised. Next do the painting, followed by the assembly and finishing.

Safety guidelines:

During cleaning, painting and assembly of the product, use gloves to protect your hands and goggles to protect your eyes. The product might contain oily grease and wax like support material.

If in contact with your skin, clean your skin with abundant water and soap.

Before eating or drinking, always clean your hands thoroughly if you have touched the product.

ADDITIONAL INFORMATION

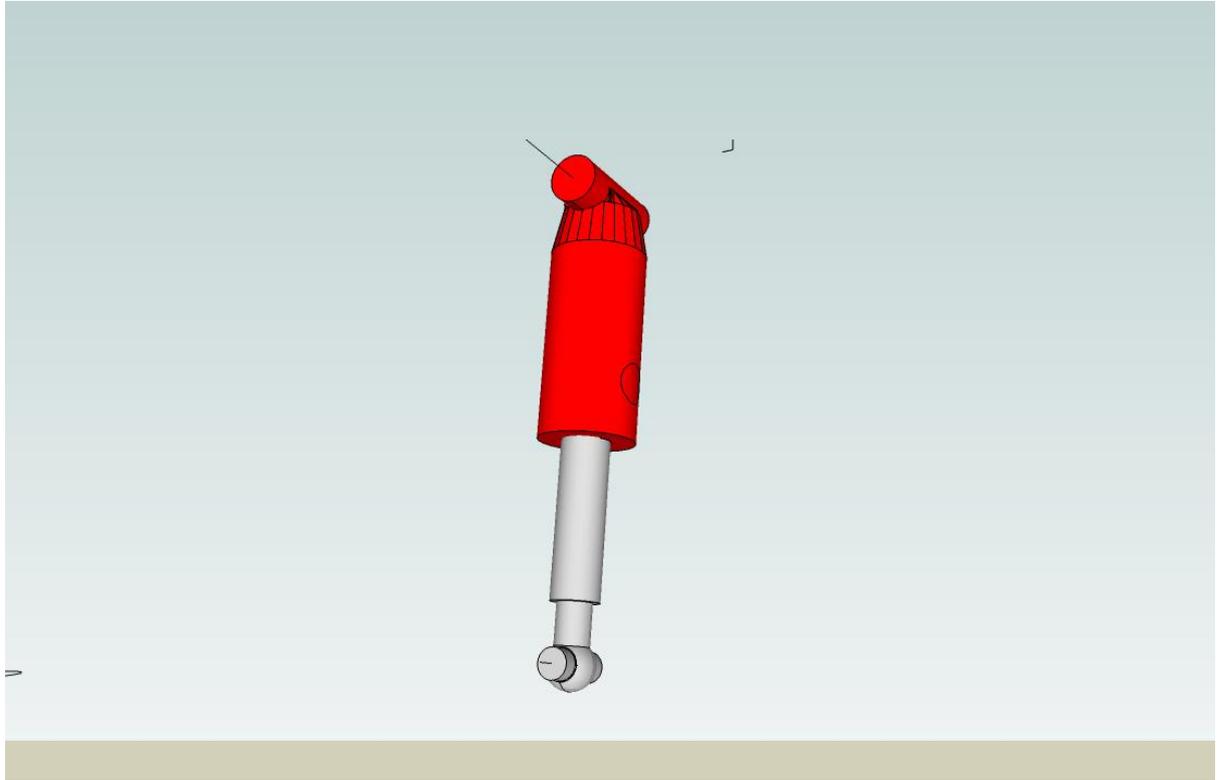
**This kit is only for experienced scale modelers with a lot of patience, steady hand and good eyes!
Fragile and small parts included. Keep out of reach of children.**

ASSEMBLY AND PAINTING INSTRUCTIONS

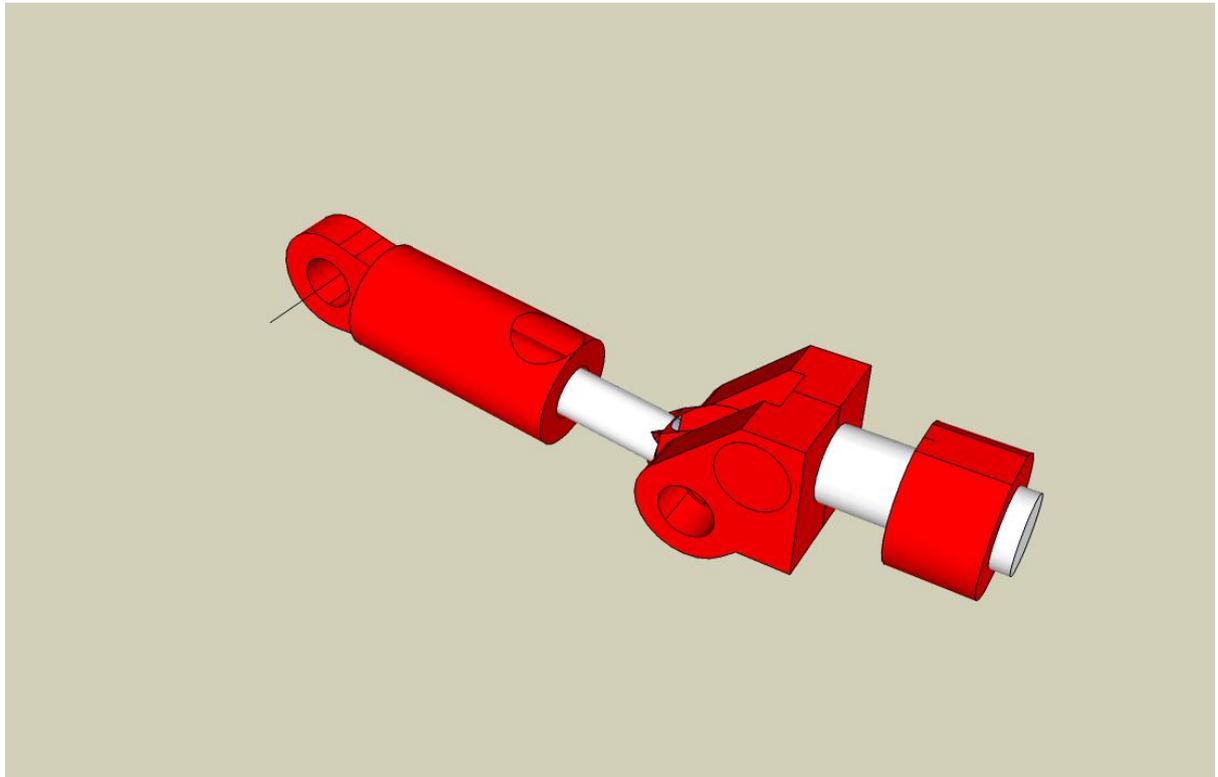
	<i>Follow the generic instructions on cleaning and separating parts</i>
Cleaning	
1	Clean the parts while still attached to the sprue.
!	Cut off the parts #7 (pistons) with a hobby knife or small scissors, as these should not be painted initially.
Painting	
2	Spray paint as many parts as possible. Ground spray (white/grey) while still attached sprue, next cut of parts from sprues into groups of similar color and (spray) paint final color.
	Use e.g. a tooth-pick or straw to hold the product parts. <i>Only after painting and thorough drying continue.</i>

Preparations

- Make sure the **holes** in the various parts are cleaned. Use drills manually.
Diameters: 0.8, 1.0, 1.2, 1.3, 1.5, 2, 2.2mm required
Refer to the values in brackets ([]) in the parts list above
- Make sure the **pistons** (part 7 & 14) can *with little friction* move in the cylinders (part 3 & 15); clear the cylinders first from any wax residue (use toothpick or drill)
- Cut the **axes** for the wheels from diameter **0.8mm** rod, length **6.5mm**, and straighten the ends (no sharp endings). Depth of shaft in rim is 1.5mm



3

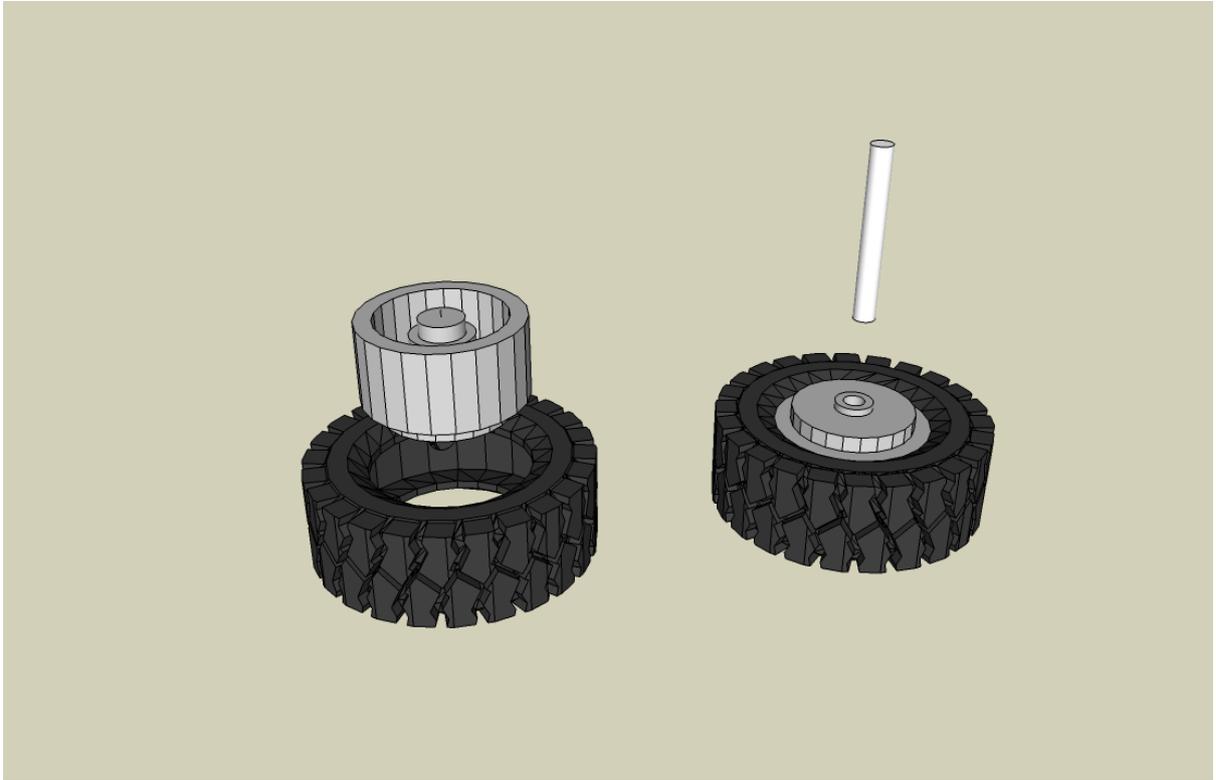


Wheel (tyre/rim/axle) assembly

Put painted tyre flat on working table, **gently** press in the rim, turn around, (optional apply some glue to fix the rim). Next apply little glue in the shaft, and press the cut axle into the shaft in the rim (1.5mm)
Let dry thoroughly.

Make sure to use **half** amount of the rims **2a**, and half amount of the rims **2b**!

4



5 **Generic pendulum assembly**

Verify the tyre/rim/axle assembly can freely move in the hole in part 4a, if not adjust the hole.

Position parts 6a, 4a and 3 and 7 flat on working table

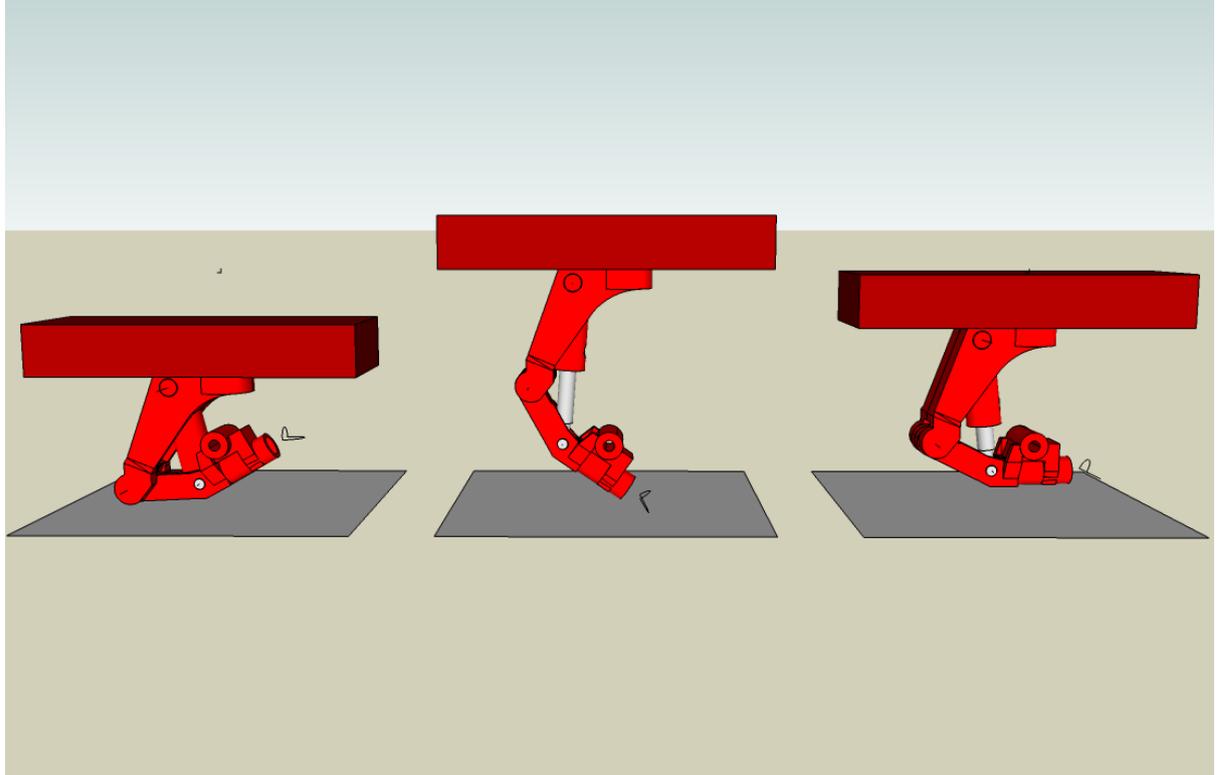
Apply little glue to indicate places

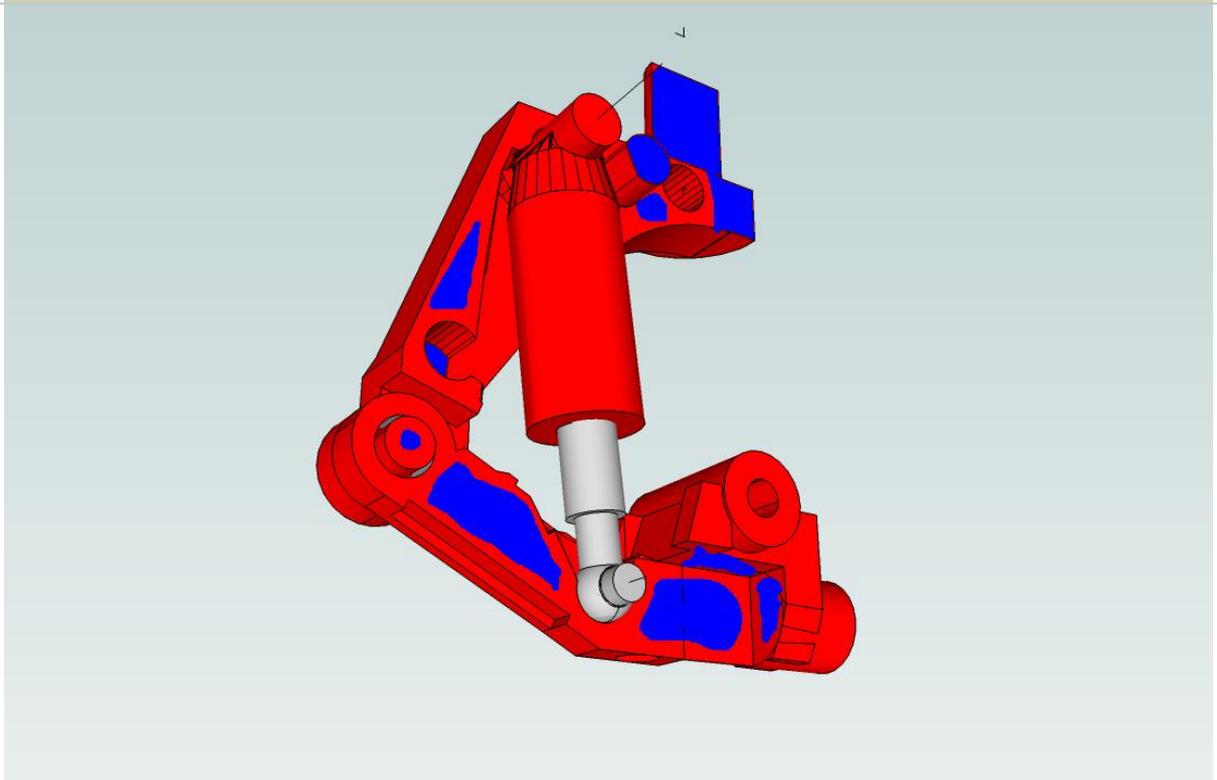
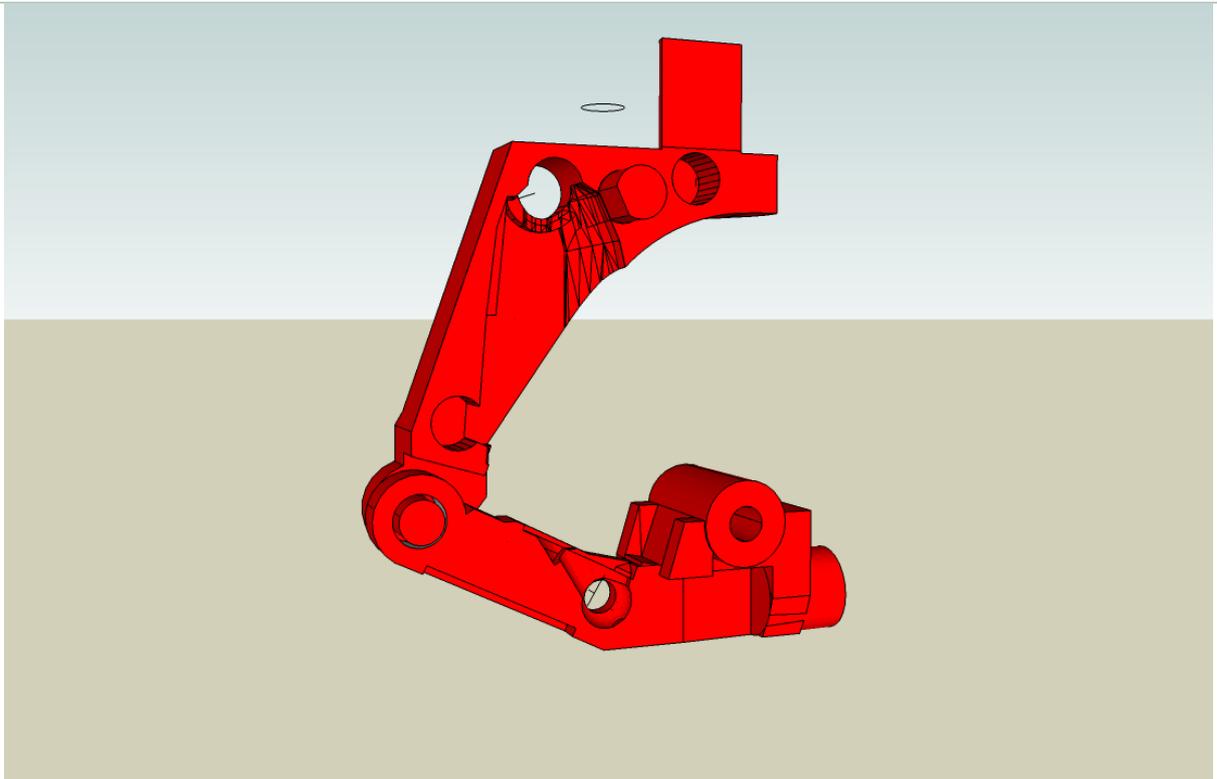
Press parts 6b, 4b into place

- Make sure parts 4a/b can move, keeping parts 3/7 into place. The moving should be with slight friction. Let dry thoroughly.

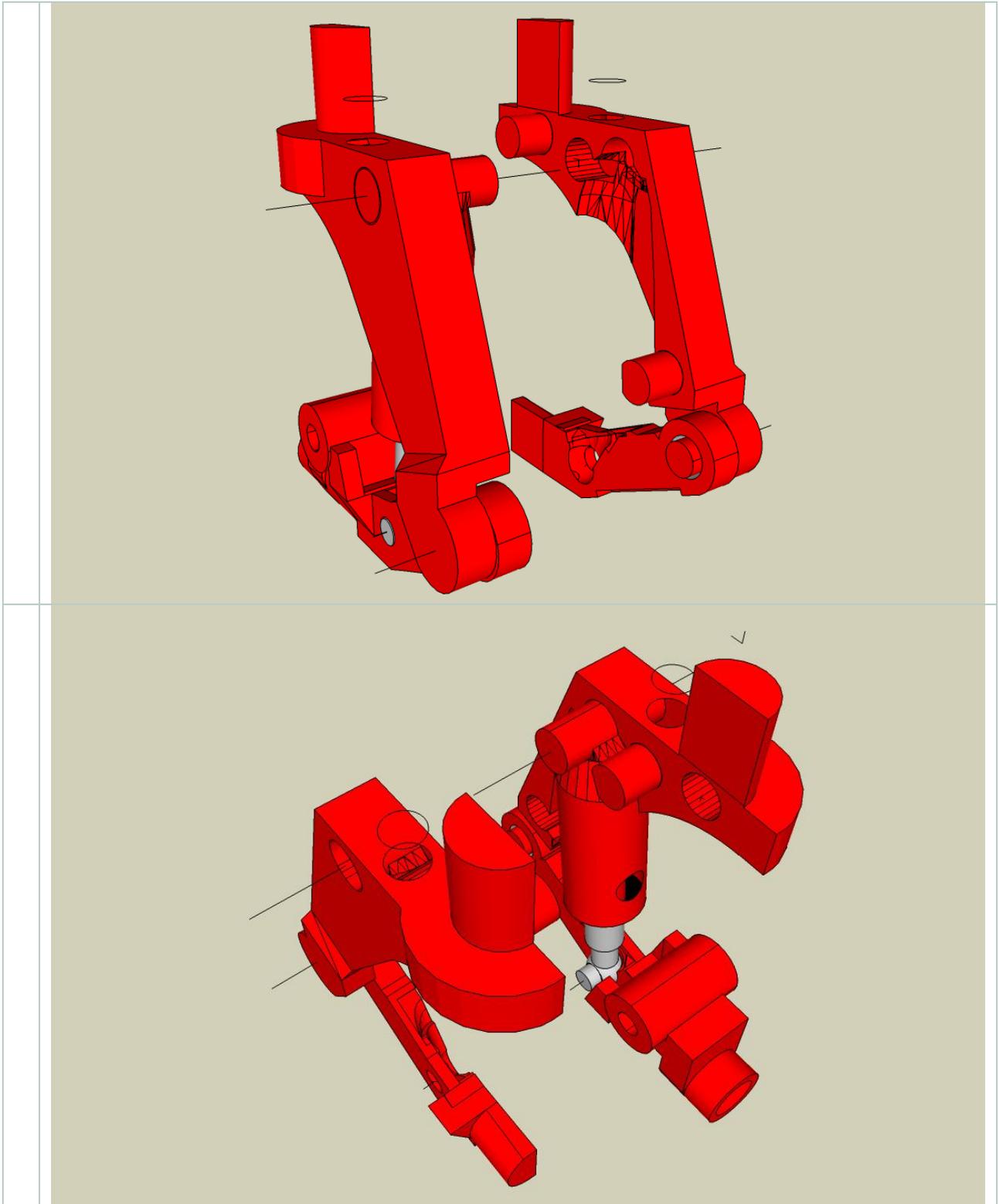
(optional): apply some silver paint to the bottom part (the always visible part) of the piston (#7)

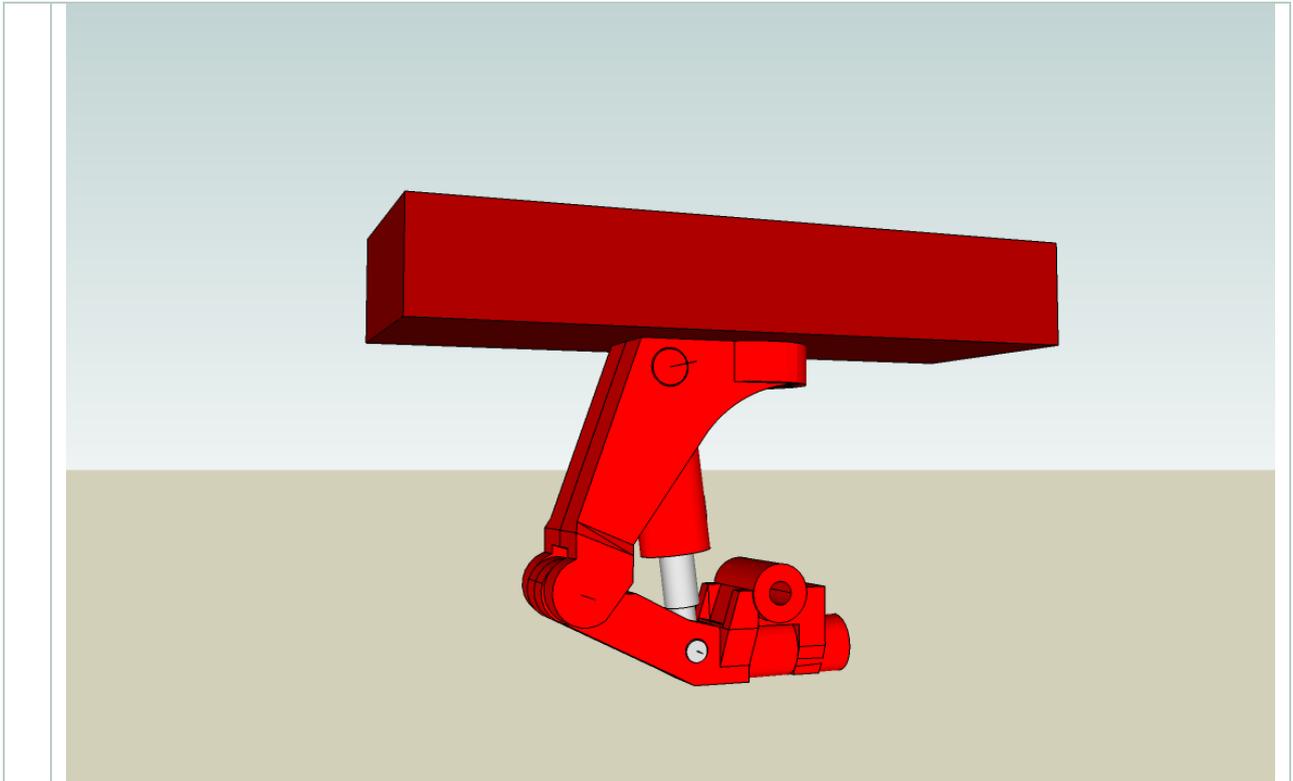
Pendulum shown below in min, normal and max positions:



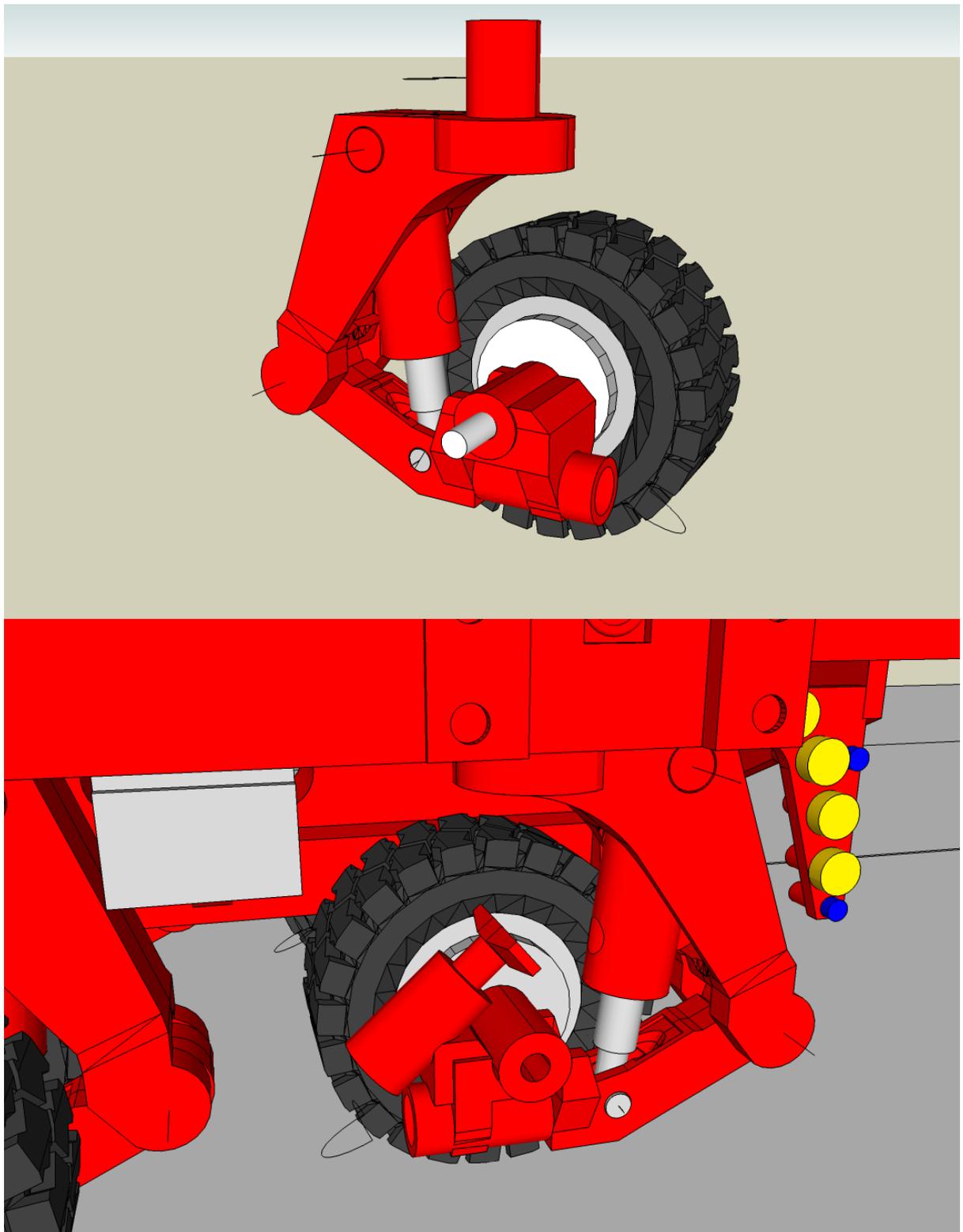


Glue indicated in blue (best not use liquid but use **gel**), use sparingly! Let dry a bit before assembling





Glue brakes #8 to the axles on the outside only
Insert the wheel assembly from step 4 into the pendulum assembly and glue the corresponding tyre/rim
to the rod with little glue. Make sure the wheel assembly can rotate.
Let dry thoroughly.

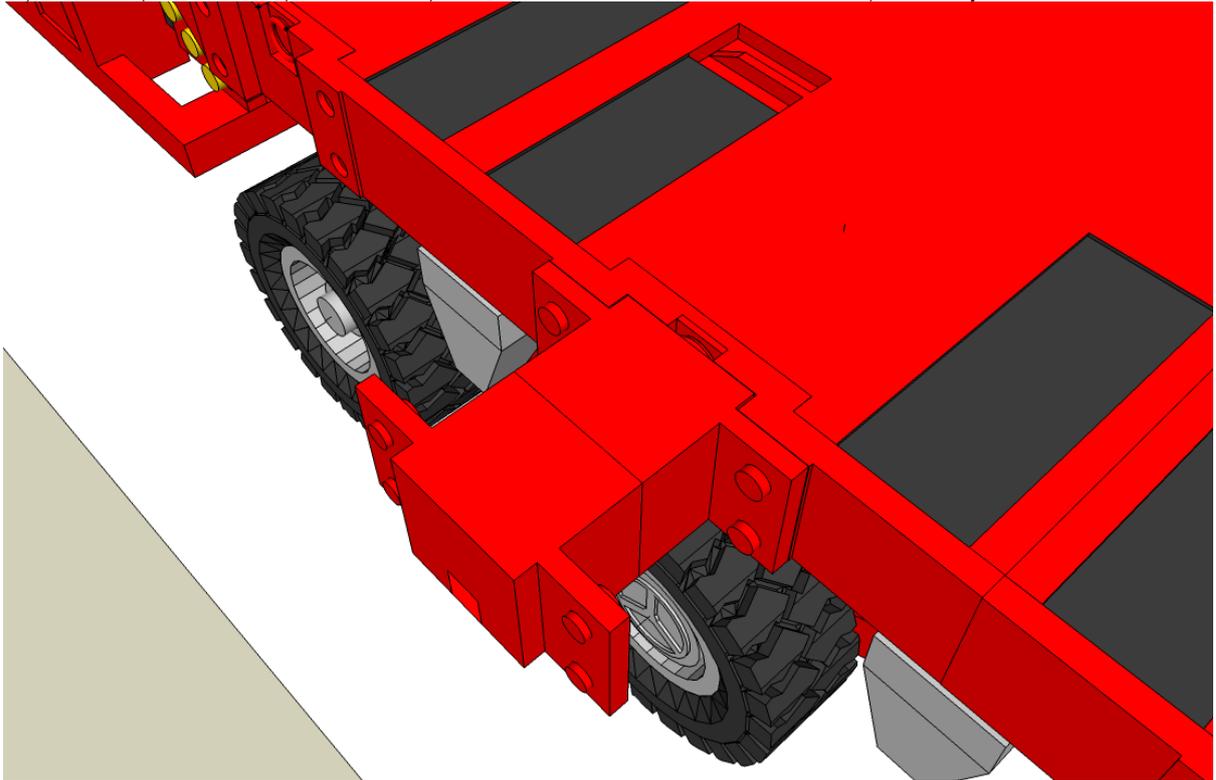


b

6

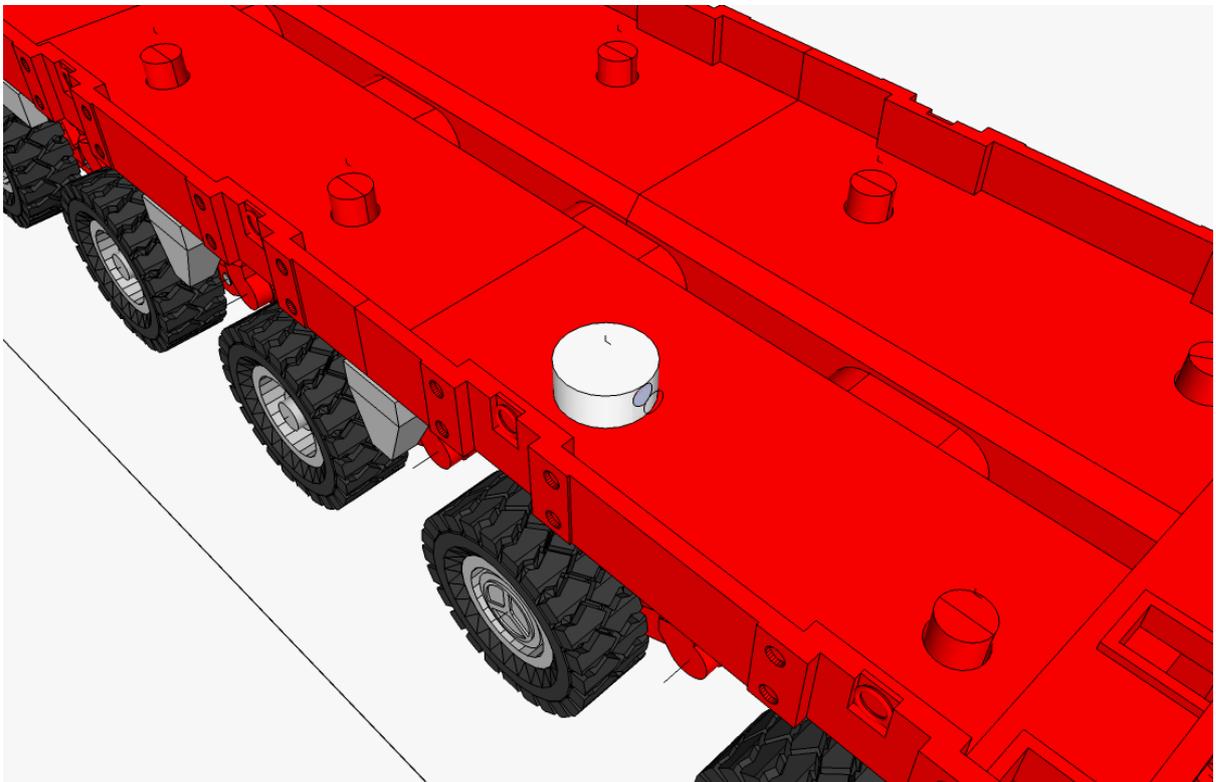
SPMT assembly

Verify that the top cover of the SPMT (part 4/6B) fits the frame (part 4/6A); if required adjust.
If you have purchased spacers, verify that these fit with some friction; if required adjust.



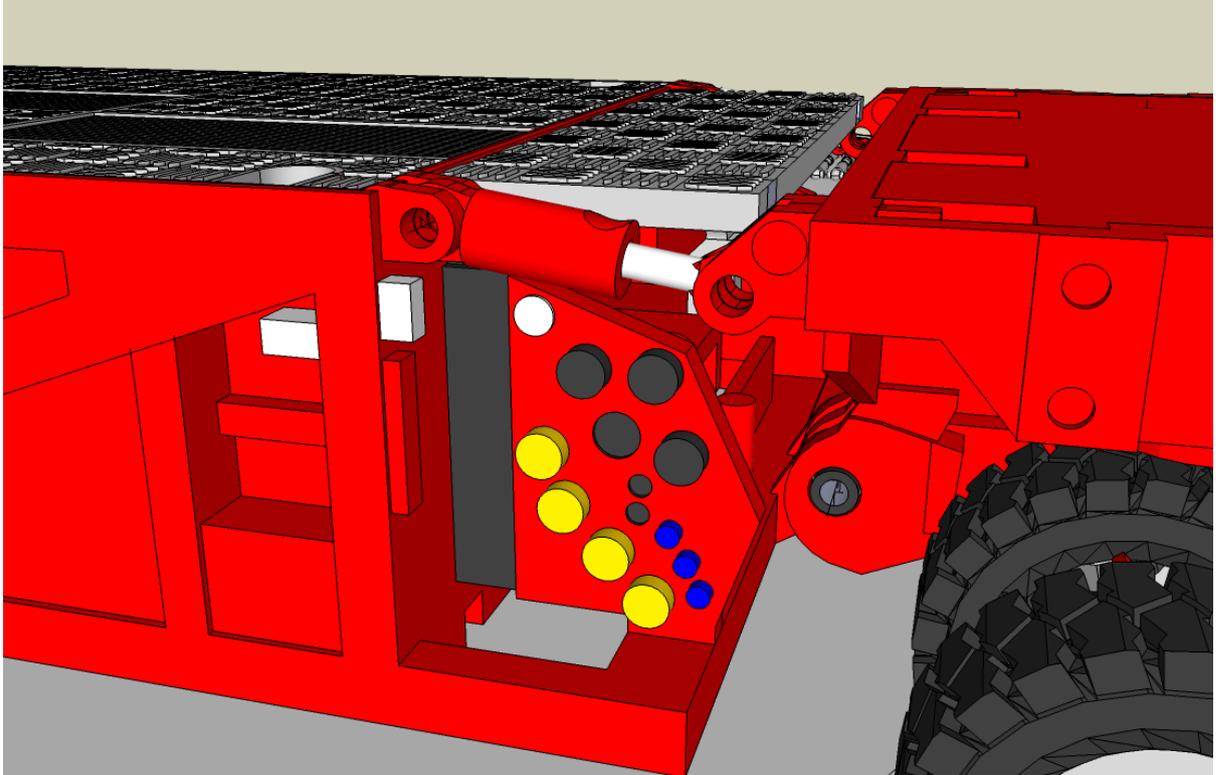
Insert each pendulum assembly through the hole in the SPMT frame and apply the knob on top (optional glue).

Glue the cabinets (9 a/b, 10/11) in place, use example photos to determine where to position.
Fit/glue the top cover in place



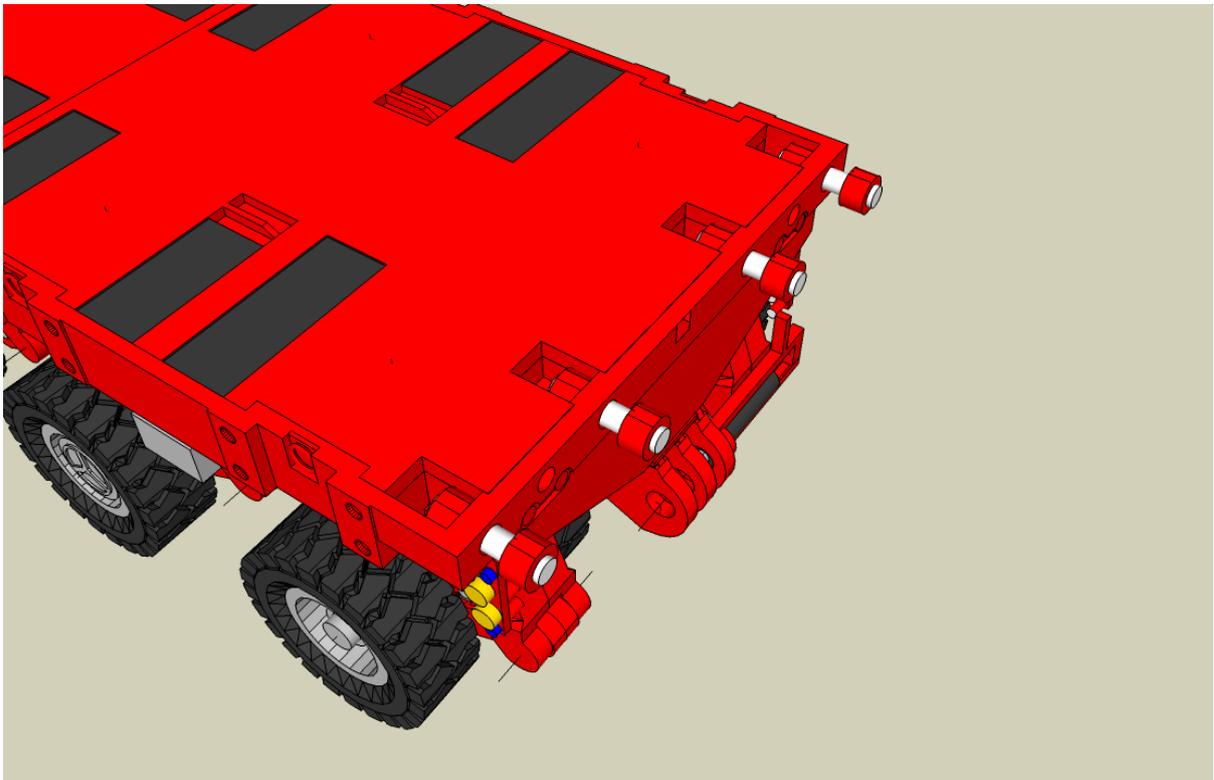
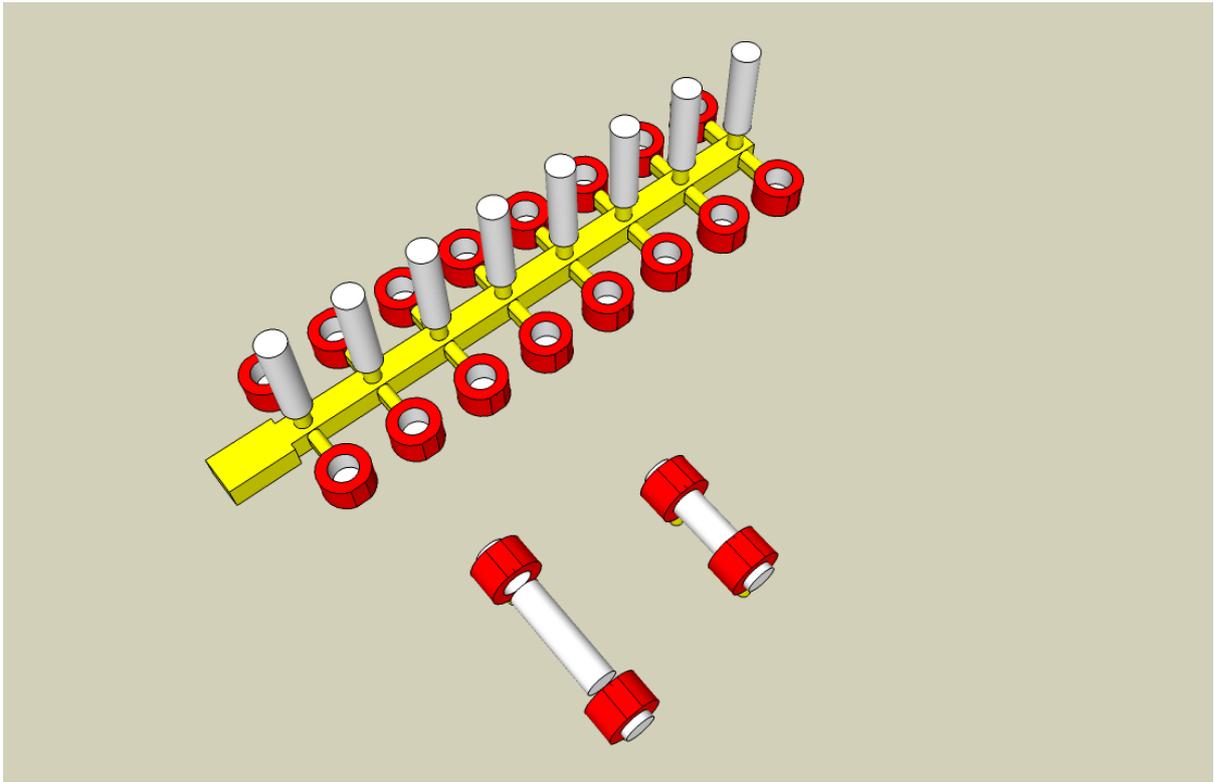
7 PPU assembly

Cut the small parts aggregation out of part C
Fit part D to part C (make sure the rollers, black in the picture) are at the end)
Cut small rods of **1.9mm** in length (diameter 0.8mm) and straighten the ends (no sharp endings)
Assemble as shown below. Some friction should be in the piston/cylinder combination, to make sure the PPU is held in place/horizontal.
Use knob 18 (onto part 17) to fix the assembly to the SPMT. Use glue or bluetag to fixate.



Connectors

In case you purchased connectors as well, use these to connect 2 SPMT's together into one unit.



99	Spray paint all parts with clear lacquer (protective layer).

ADDITIONAL INFORMATION

--	--

PRODUCT PAINTING EXAMPLES

	Example with colors Applied
Refer to our website for more product photos	

For any questions/suggestions or additional information, contact us at

Customer Service Department, email us: support@robs-mw.com	
Website: robs-mw.com	Facebook: facebook.com/robasmw
Subscribe to our newsletter and/or product updates!	

DISCLAIMER

Not included is paint, glue, tools. Decals –if applicable for this product - should be self-printed on suitable material.
This product is only suitable for the experienced scale modeler (adults, 14 years up). Small parts included!
Warning: Please note that the 3D printing materials we use for manufacturing the products make the products suitable only for decorative purposes and they are not suited for any other purpose. The products are not suited to be used as toys, to be given to children. The products should not come in contact with electricity or food & drinks and should be kept away from heat and UV radiation.
Due to the new technologies used to fabricate these products, different procedures might need to be used to achieve similar results as for products produced with conventional technologies.
Photographs and drawings can show pre-production samples. Subject to alterations in assortment, printing, shape and colors.
Technical details information about the example provided 'as-is'