

# **WECOHE PRODUCTS:**

## **Assembly Instructions for the Tamiya 1/16 Scale Tiger I & King Tiger Upgrade Suspension System**



***Read these instructions carefully and review the drawings before  
you start the assembly!***

## **Note:**

The drawings refer to the Tamiya 1/16 scale Tiger I, but are also valid for the King Tiger, Pershing, Leopard and Gepard versions.

**Before mounting the upgrade suspension kit for the Tamiya Tiger I the torsion bar support brackets should be drilled out by 0.120 inch to fit the M3 hex bolt which holds the torsion bar bushings in place !**

### **Preparation:**

You need to have the following tools at hand:

**5.5mm Open-end wrench  
Allen key for the grub screws  
0.120 Drill**

### **Assembly Instructions:**

- First of all, the springs have to be pushed onto the trunnions in such a way, that the end pins of the springs fit into the groove of the trunnion. Please take care of the trunnions, you have to use one with a thread for the grub screw (M3x3) and another, having a thread for the hexagonal bolted screw (M3x4), with every spring!
- The assembled spring/trunnion units need to be fixed to the torsion bar stays, using a hexagonal bolted screw (M3x4) and a spring lock ring. Please take care of the second trunnion to face upwards (where the grub screw (M3x3) is located), to have access to it later on. The axles have to be pushed into the spring units after shoving a brassmade centre socket on it. The fishplates of the axles have to oppose the spring units.
- Now you have to fix the axles in the spring units by slightly tightening the grub screws (M3x3), to prevent them of getting out of place. Now you can screw the torsion bar stays into the hull.

**Note: It is important to grease the inside of the brass center sockets and the torsion bars and their supports! You can also deburr and polish the torsion bars and their supports before you grease them!**

- Next, the torsion bars have to be inserted into the hull and the axles have to be loosened in the spring units (by opening the grub screws (M3x3)). The fishplates of the axles need to be pushed as far as possible into the groove of the torsion bars.
- Now the brassmade centre sockets have to be pushed against the torsion bar stay and need to be secured by tightening their grub screw (M3x3). The whole unit has to be moveable in a smooth manner.

### **Adjustment and fine tuning:**

- The setting of the torsion bars to fit the right angle and bias, needs to be done individually for every single torsion bar.
- At this step of the setting, the grub screws of the spring units should be tightened temporarily with a moderate torsional moment!
- Therefore the tank has to be placed on any device which enables the torsion bars to come off the ground and the grub screw of every axle has to be loosened in it's spring unit. The proper angle of every single torsion bar needs to be handsetted using the template of the drawing as an aid. This setting depends on the individual requirements of your tank (weight balance, actual "action pictures" and, of course, your "gusto").

**Note:** A more distinctive tendency to “lurch” during braking and acceleration is attained by flattening the angle of the first and last torsion bars on every side. If the desired setting is attained, the grub screws of the spring units should again be tightened temporarily with only moderate torsional moment.

After performing several “smooth and cautious” up and down movements with every single torsion bar by hand and a check that the desired angle is still existing, the grub screws of the spring units should be tightened.

**Caution: After tightening a screw, the next step is to strip the thread!**

The biggest advantage of our suspension system: It is adjustable! It's disadvantage: It needs to be adjusted!

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### ***For King Tiger Versions Only:***

Because of the dimensions of our suspension system when installed in the hull of the King Tiger version the so-called “mechanism deck“ could not be fixed as specified by Tamiya - BUT you must still use the “mechanism deck“.

To use it, find a new location near the specified original designation and mount it with adhesive tape. By doing it this way it now remains removable. The holes that are no longer needed should be closed using the screws and hexagonal nuts (M3).

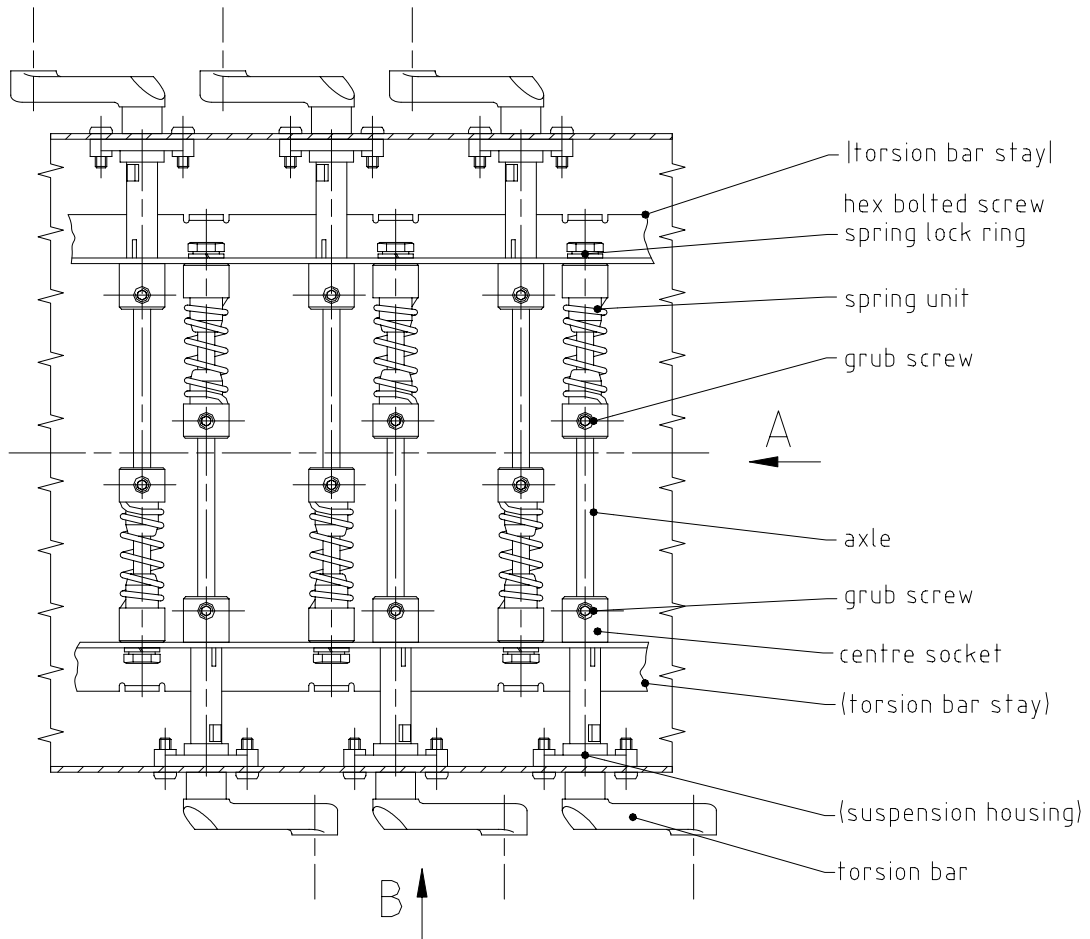
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Thank you for your purchase of our products and Happy Tanking!

**WECOHE Products**

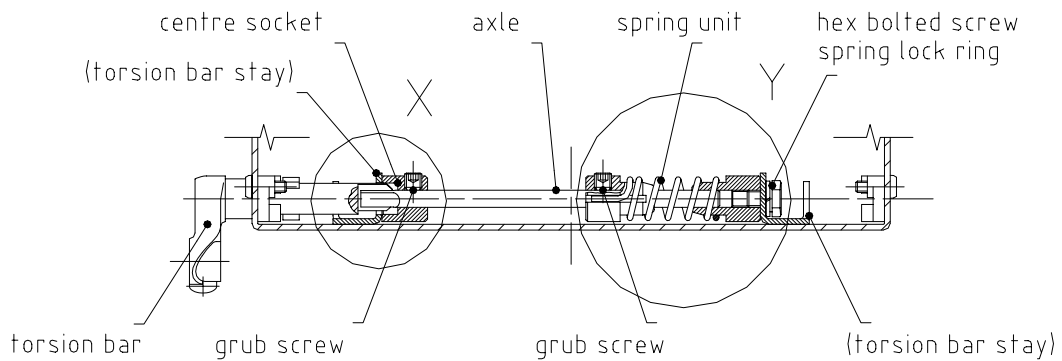
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View onto the inner hull

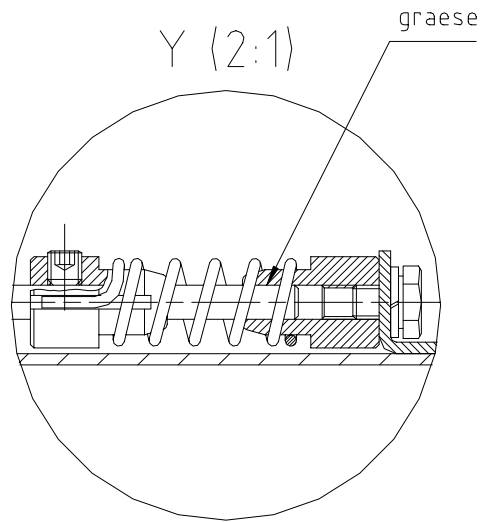
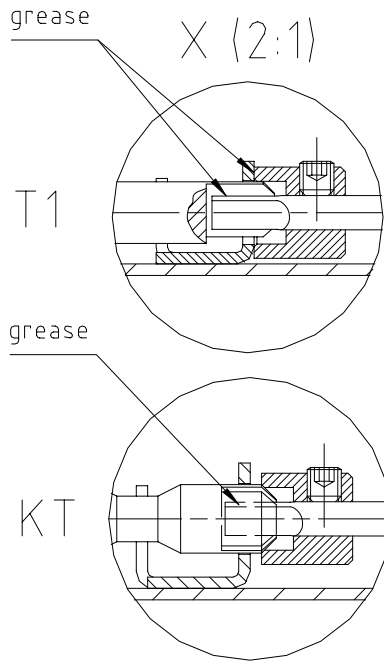


view A (frontal hull view)

Refer page 2 for details concerning assembly view X and Y !



Take care of the grub screw' holes to face upwards, whilst being fixed to the torsion bar stay !



During the attachment of the torsion bars, the fishplates of the axles should be inserted as far as possible into the groove of the torsion bar. Then the centre sockets need to be pressed against the torsion bar stays and their grub screws have to be tightened.

View B |lateral hull view|

