

LTM 1750-9.1 INSTRUCTION MANUAL



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Dear scale model enthusiast,

Congratulations – You've got your own scale model of the impressive Liebherr LTM 1750-9.1 mobile crane now. We wish you a lot of fun and joy with it.

Please read these general recommendations and instructions before you build up your model.

General recommendations for rigging up this model

- Please study the manual before you start building up the model and take your time.
- Make it step by step, carefully and slowly.
- Please try to guide the wire with your fingers while winding it up to a winch. It will help to avoid that it gets jammed aside of a winch.
- Please don't put too much force on the small and filigree parts. This might cause damages.

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Parts list for the Liebherr LTM 1750-9.1



Parts:

- | | |
|--|--------------------------------------|
| 1. Swingable rear outrigger (2x) | 19. Rod TY guying system (2x) |
| 2. Outrigger support plate (3x) | 20. Rod nut (8x) |
| 3. Locking pin (3x) | 21. Rod bolt (8x) |
| 4. Swingable front outrigger (2x) | 22. Working light |
| 5. Swingable outrigger locking pin (4x) | 23. Operating cab retainers (3x) |
| 6. Swingable outrigger cylinder screws (4x) | 24. Side platforms (2x) |
| 7. Powerpack | 25. Ladders (4x) |
| 8. Receptacle plate (counterweight base plate) | 26. Access platform (right) |
| 9. Nut (2x) | 27. Access platform (left) |
| 10. Bolt (2x) | 28. Powerpack cover (right side) |
| 11. Locking pin (2x) | 29. Powerpack cover (left side) |
| 12. Counterweight plate centrings (6x) | 30. Small hook (3 pulleys) |
| 13. Counterweight retaining plates (4x) | 31. Big hook (9 pulleys) |
| 14. Counterweight plate 10t (16x) | 32. Base plate (4x) |
| 15. Counterweight plate 5t (2x) | 33. Allen key |
| 16. TY guying system (left & right) | 34. Bolt key #1 |
| 17. Screw long TY guying system (2x) | 35. Bolt key #2 |
| 18. Screw short TY guying system (2x) | 36. Winch key |
| | 37. Connecting loop for spreader bar |
| | 38. Spreader bar |

Assembling the swingable rear outrigger (left & right side)



Hold the swingable rear outriggers upside down.

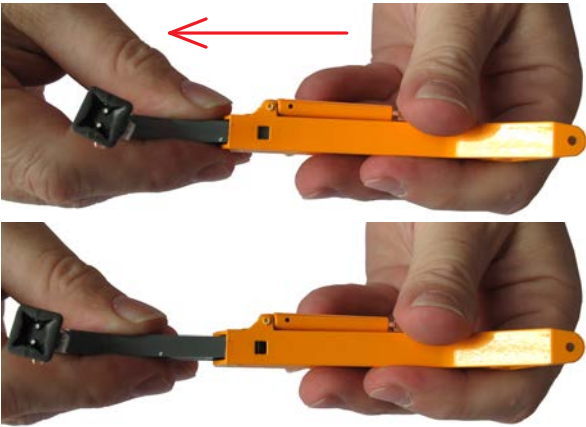


Put the outrigger support plate on top of the cylinders.

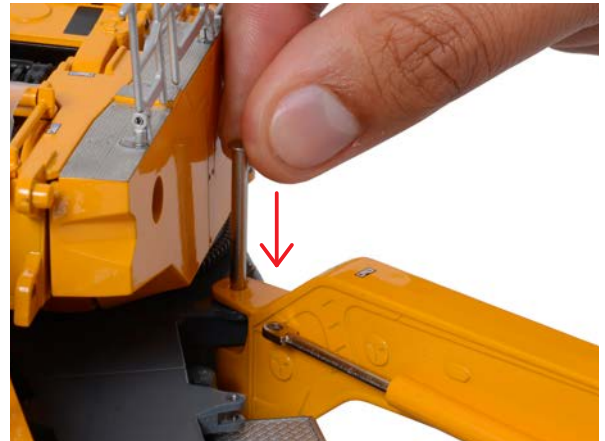


Fix it with the connection pin #3.

Attaching the front and rear swingable outriggers



Extend the swingable outrigger by pulling it out.



Connect the swingable outriggers to the chassis and fix it with the connection pin #5.



Attach the cylinder to the chassis according to the picture. Use screw #6 to fix it.

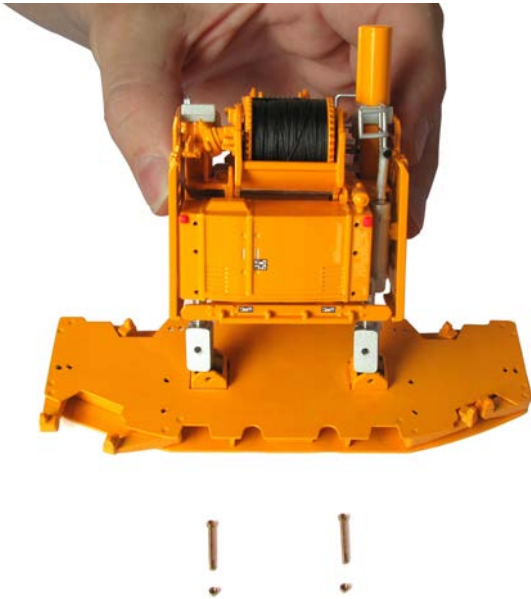


Attach the outrigger support plate to the rear support cylinder (underside of chassis).



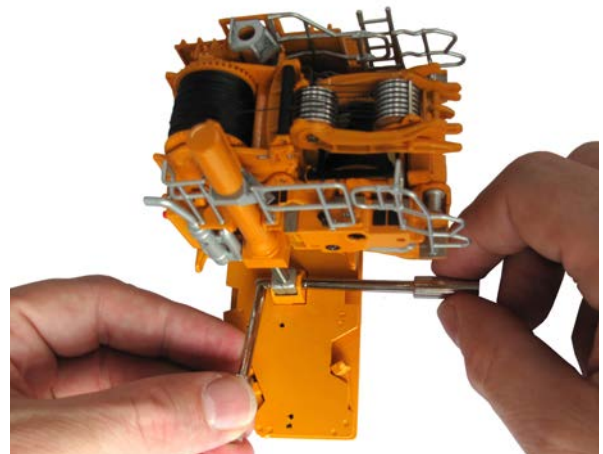
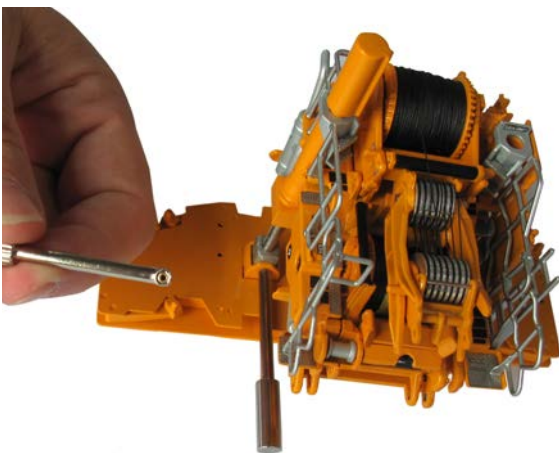
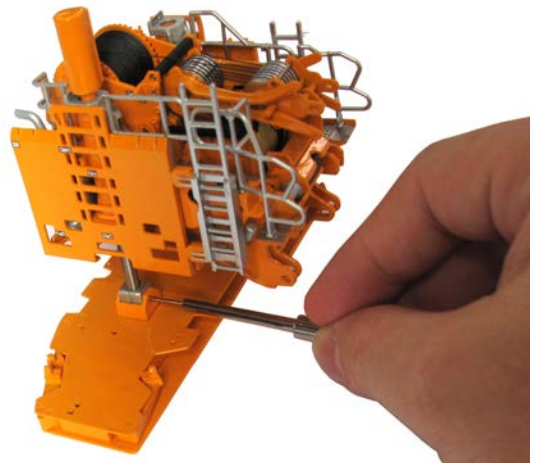
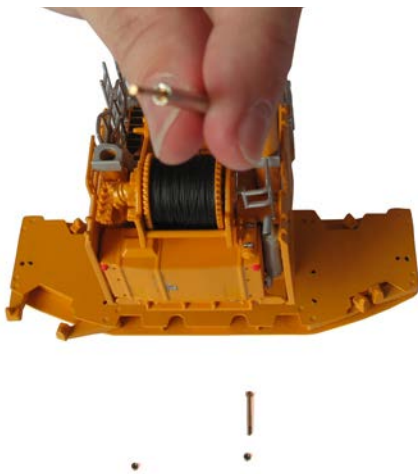
Push in the lock pin #3.

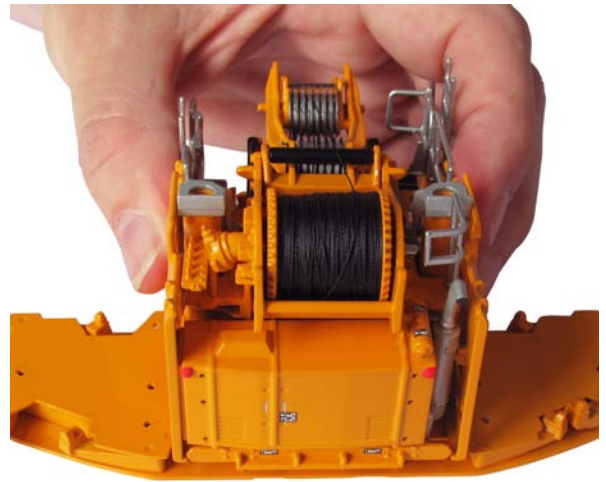
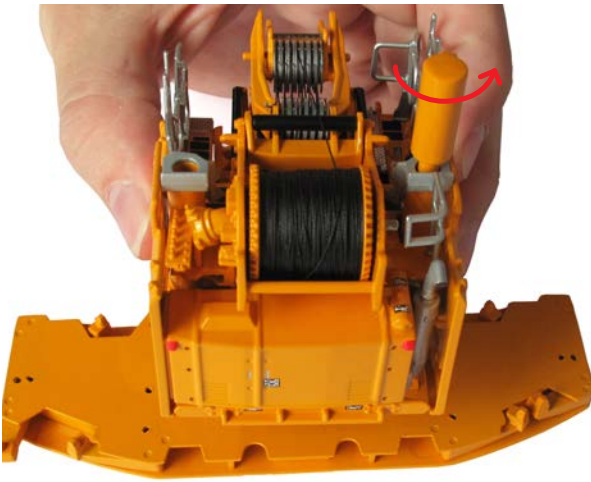
Attaching the powerpack



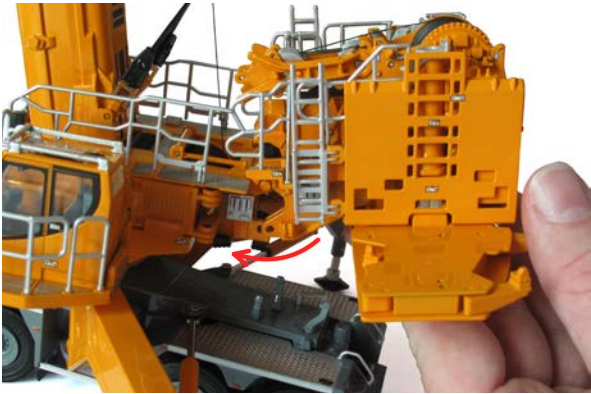
Place the powerpack on top of the receptacle plate (make sure the connection blocks are placed well).

Connect the square connection blocks with the receptacle plate by using the nuts (part #9) and bolts (part #10).

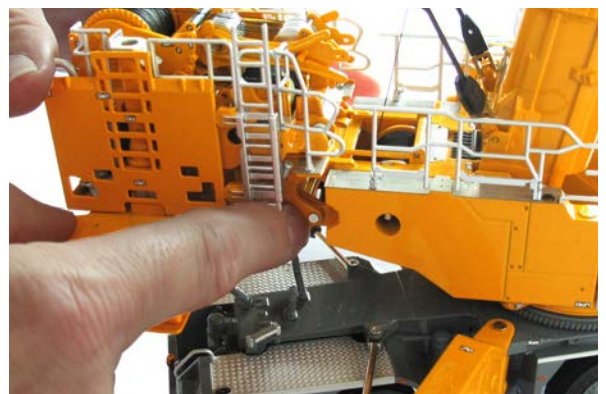
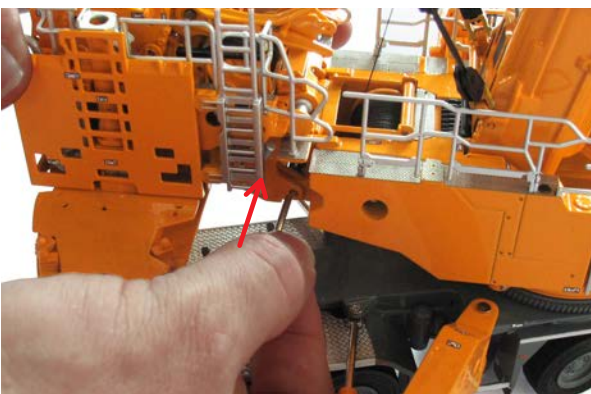




Turn the cylinders counterclockwise to bring the powerpack down till it touches the ballast base plate.



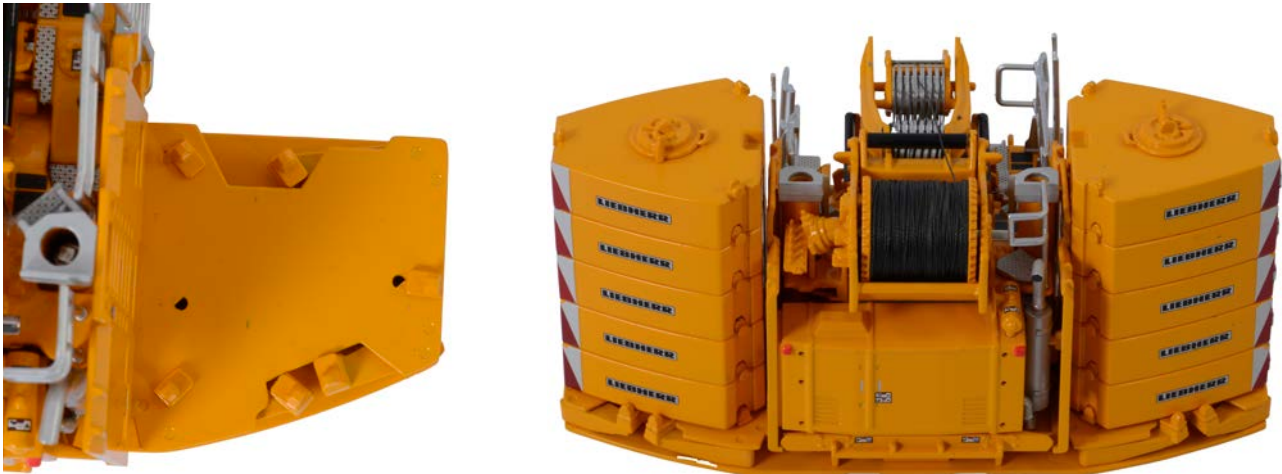
Attach the powerpack to the superstructure by hanging it onto the connection joints.



Fix the powerpack to the superstructure by pushing in the lock pins #11 at both sides.

According to single or double counterweight setup, fold the counterweight swing arms, place the counterweight centerings (part #12) and place the counterweight plates on top of the counterweight centerings.

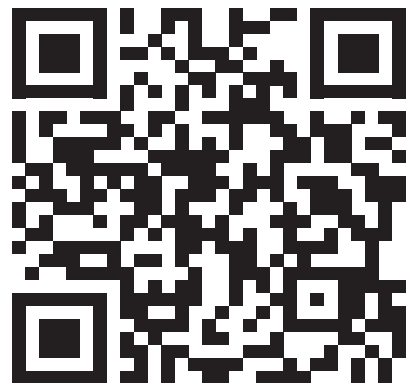
Single setup for counterweight plates



Double setup for counterweight plates



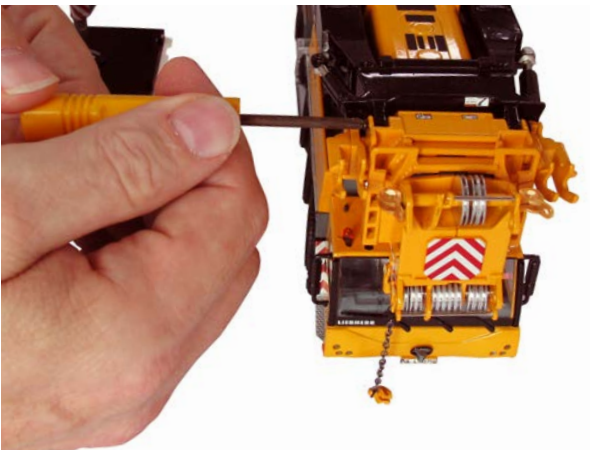
Did you know that it is also possible for our scale model to simulate the buildup of the ballast and powerpack like in real life? You want to know how this works? Have a look at our video on the WSI Collectors Manuals page (Go to wsi-collectors.com/en/manuals or scan the QR code on the right).



Attaching the TY guying system



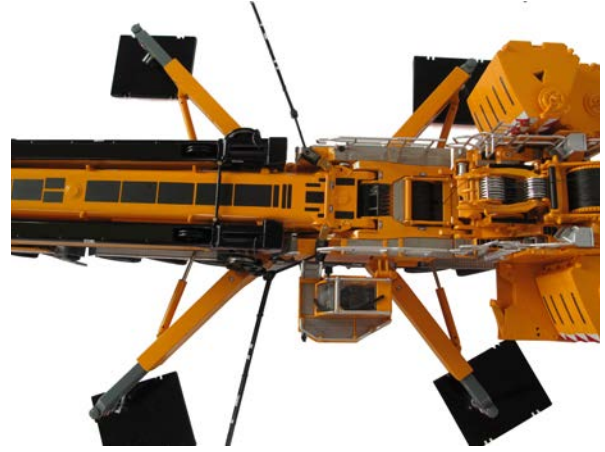
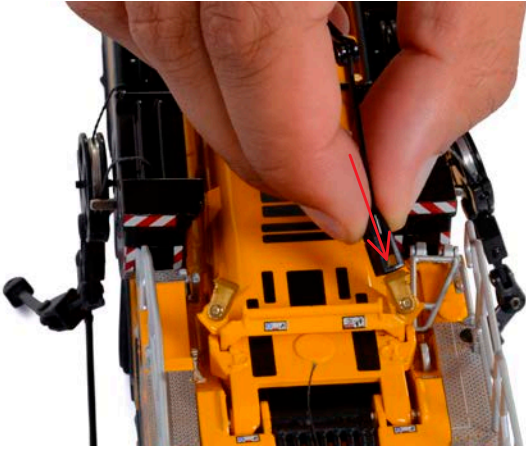
Place the TY guying system on top of the telescopic boom so it sits parallel to the boom.



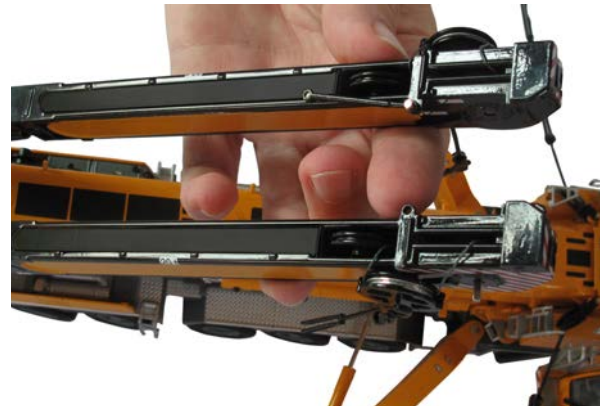
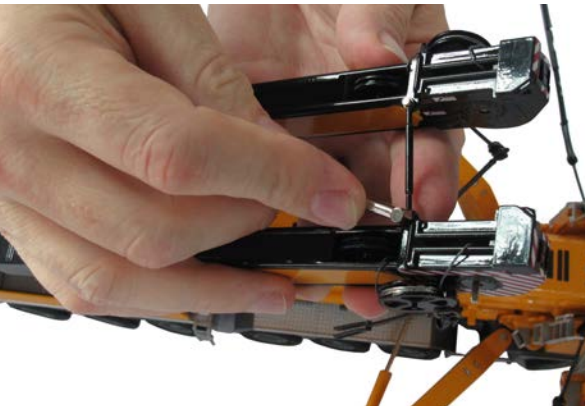
Connect the TY guying system to the boom with the two long screws #17.



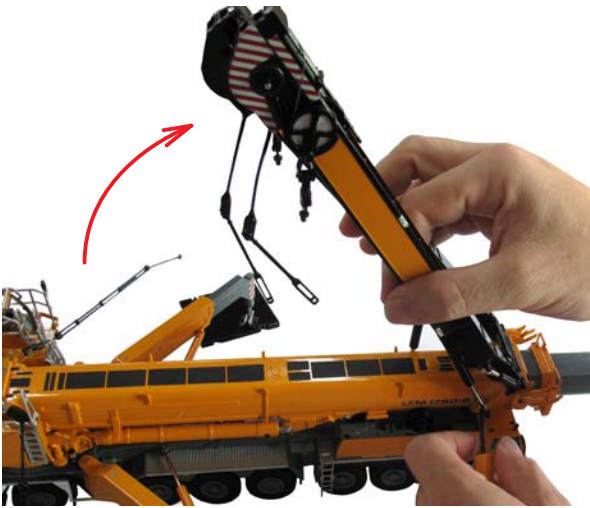
Connect the cylinders to the boom with the two short screws #18.



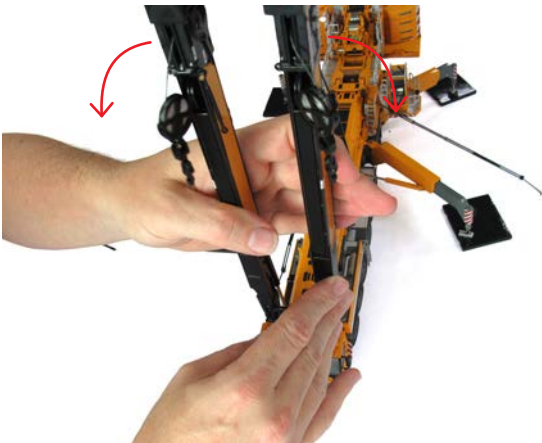
Connect the linking rods to the connection joints at the bottom of the boom by “clicking” them in.



Pull the TY guying system up until it is at a 45 degree angle to the boom and remove the connector bar, so the arms of the TY guying system can swing to the side.

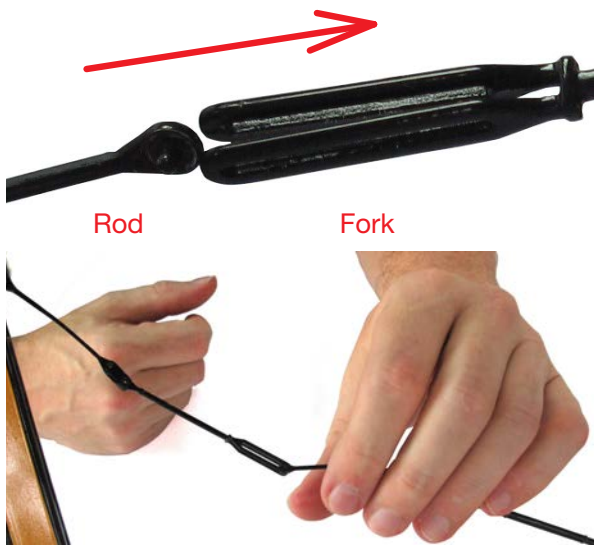


Pull the arms of the TY guying system upwards, so these are in a rough 90 degrees position to the main boom.



Spread the arms of the TY guying system to the left and right.





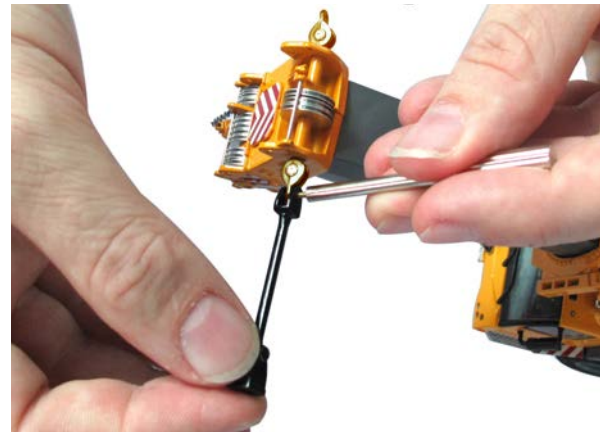
Carefully pull the rod with the small pins into the fork with the slotted holes on the left and right side.



Erect the boom and fix it with the allen key on the luffing cylinders.



Turn the winch from the left arm of the TY guying system counterclockwise and the winch from the right arm of the TY guying system clockwise to release the rope.

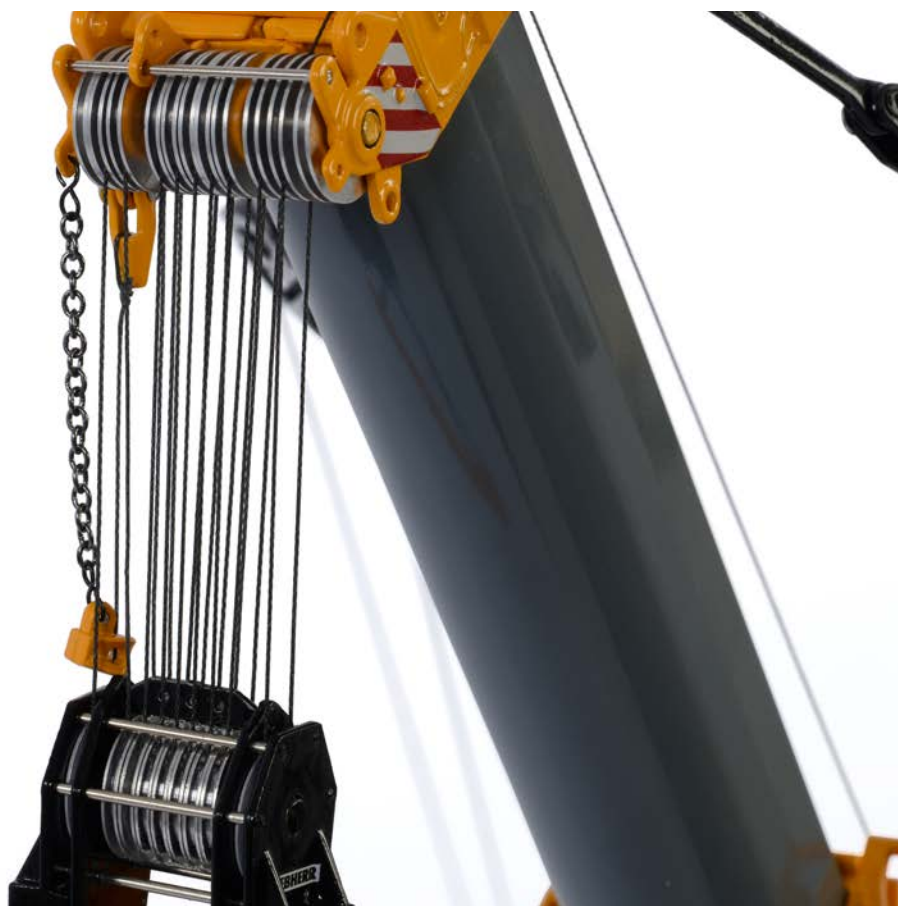
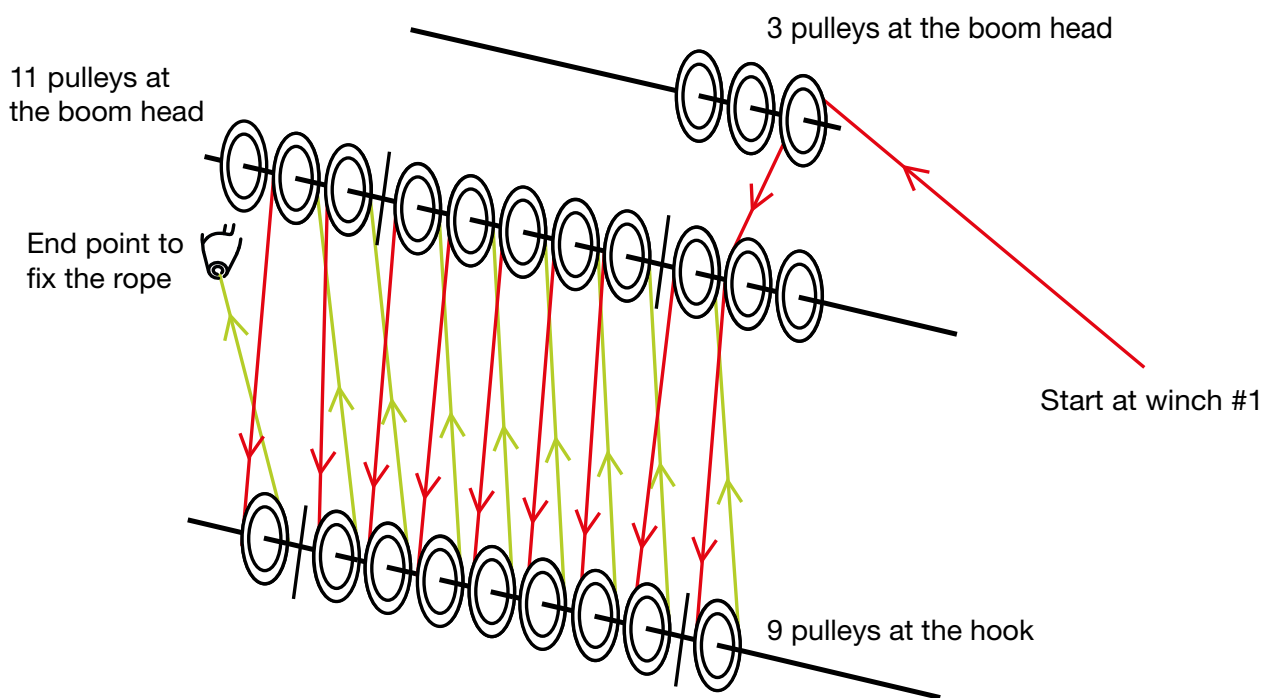


Connect the bar, which is attached to the pulley of the TY guying system, to the left and right side of the boom head. Use bolts (part #21) and nuts (#20) to fix it.

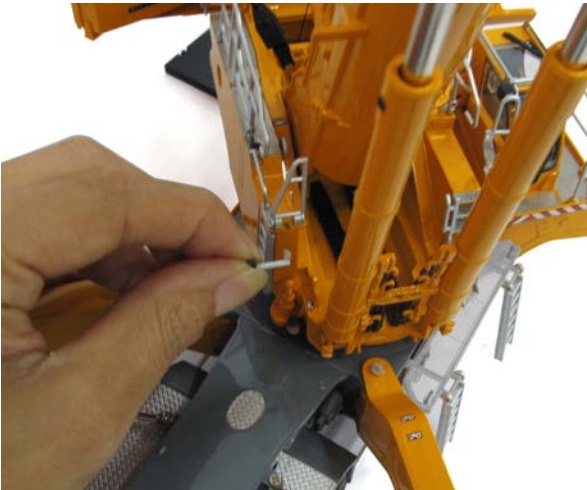


Reeving plan for the big hook with 9 pulleys

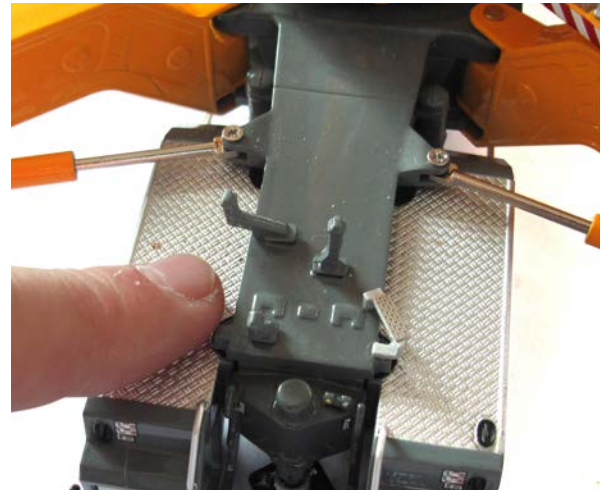
RED line is front side of the pulleys
GREEN line is rear side of the pulleys



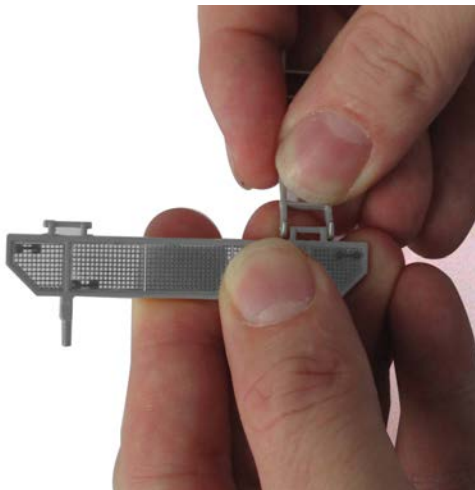
Attaching separate parts



Attach the working light (part #22) to the front of the superstructure (right side).



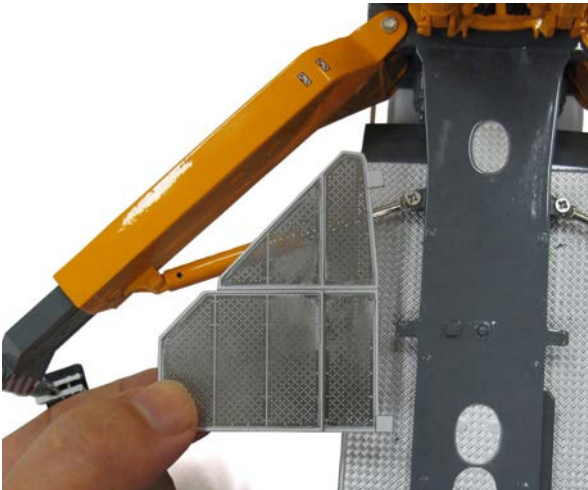
Place the 3 different supporting retainers of the operator's cab (part #23) at the rear area of the crane chassis. Each of these 3 retainers have a different shape of the fixing hole. Please place them carefully and correct.



Attach the ladders to the side platforms.



Stick the platforms with 2 ladders to the crane chassis (left & right side). They sit between the front and rear swingable outriggers.



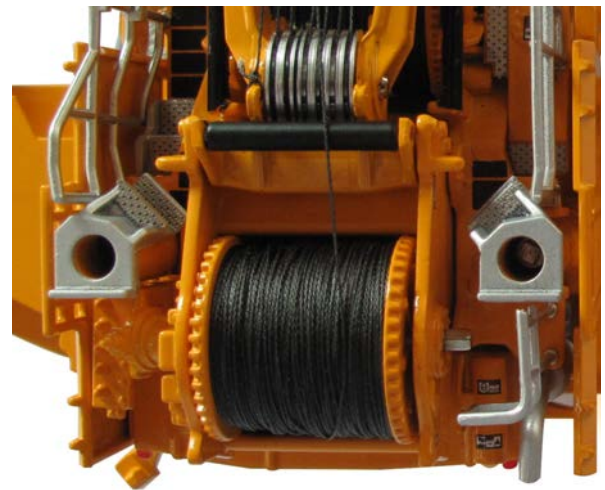
Place the access platforms on top of the chassis and the outrigger cylinders like shown in the right picture.



Use part #26 for the right side and part #27 for the left side of the crane.



Place the covers (part #28 and #29) on the top of the powerpack cylinders.

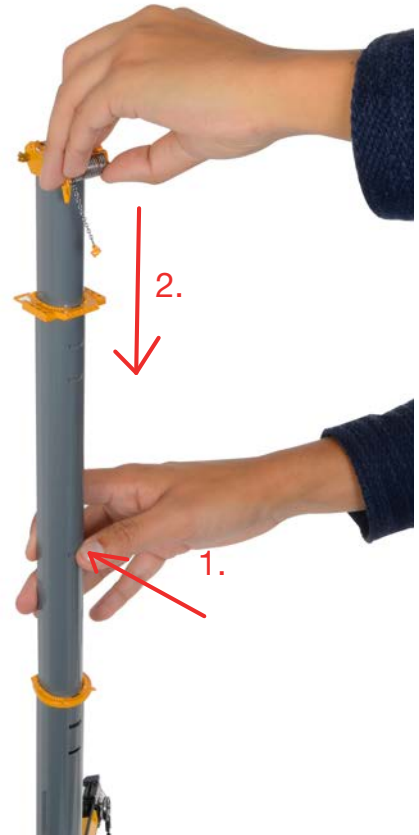


Folding in the boom

Please note, that the boom must be fully extended before you can retract it again. This is a technical reason, as you need to release the lock parts to retract each single boom section. Therefore the boom must be extended completely. At the first position the lock parts are covered by the boom sections and you won't be able to push them inside to release the section.



Push the upper lock part inside at the third boom end.



Simultaneously push the fourth boom section downwards into the third section until it is completely retracted.



Repeat these steps at all the telescopic boom sections till the boom is fully retracted.

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