

### How to set a cable on R&J machine push-pull railway

Once the tracks, winch, end track and carriage have been installed you can prepare to set the cable on the railway.  
**\*\*Please look on the how-to install a railway sheet \*\*\***

Take note of the cable previously installed on the inside of the carriage itself. You will want to put a loop in that cable using two cable clamps. One end of the main cable, starting on the inside of the carriage, will need a loop as well. Attach these two loops together on the inside of the carriage. This cable leaving the carriage will go to the very end track and through the pulley.



This cable will have to run through the top and out the bottom (Top cable coming from the carriage attachment point). This is very important as if you go the other way you will up having a twist in the cable and must re-do this process.



The cable will now go from the bottom side of the pulley, all the way to the motor. Make sure that the cable is going under the carriage, but over the tracks.



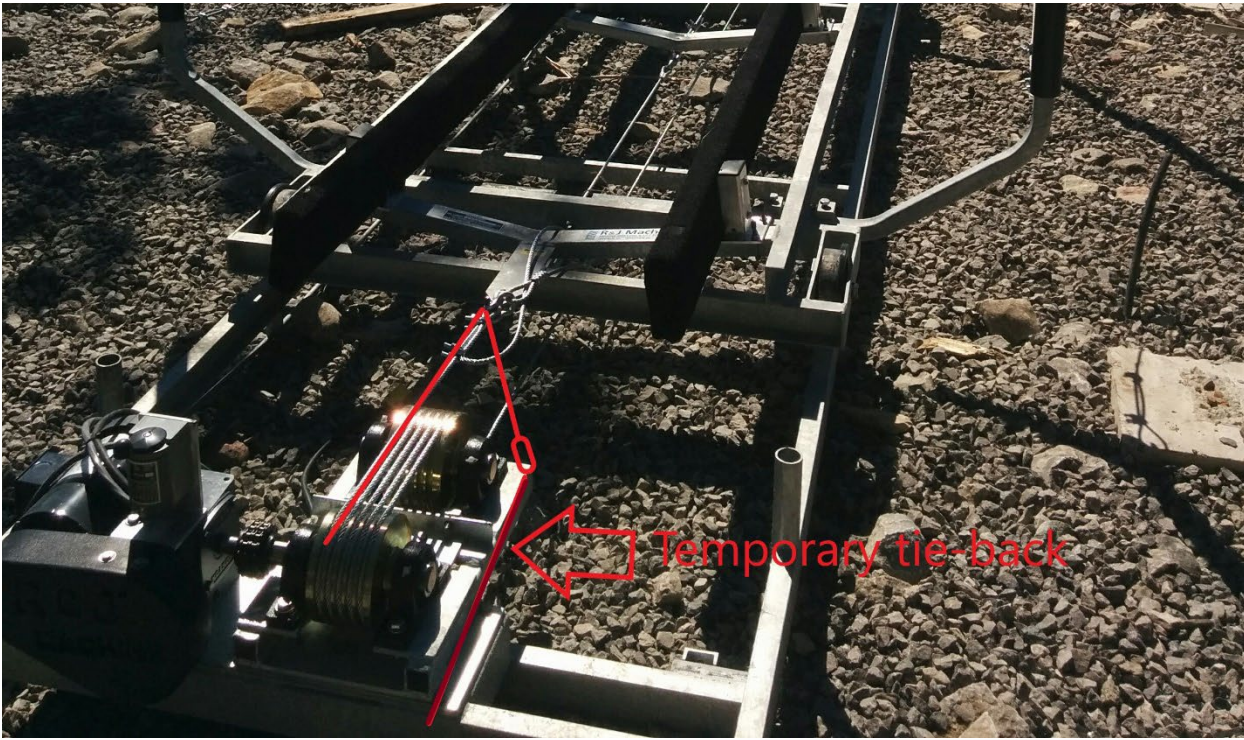
**\*\* If you are cutting the cable off a roll, make sure that you have ample extra as you need to wrap the winch and extra to set the cable etc. \*\***

Take the cable and go under both drums on the motor. Starting on the right side of the drum (towards the reducer), start wrapping the cable under and over, tracking across the grooves in the drums. Keep the cable as tight as possible around the drums as well as slack from the outer sections of the railway.



Once you have the cable wrapped through the drums, it should end on the top side of motor. The end of the cable can now go to the front tab on the railway. Attach a shackle to this point and pass the cable through this point.





Using either a temporary ratchet strap or cable, create a loop and attach the end of the cable to a solid point. A bolt on stop or a steel part of the motor mount can work.

Once the cable is secured, you can use the motor to tighten the cable. Hit “down” on the motor, and the carriage should go down, which will tighten the cable.

**Ensure that the cable isn't being caught up anywhere and all slack is pulled through at all points, including the drums on the motor mount.**

As for tightness, you want the cable to be tight, however if you go tight the end track on the railway will lift off the ground. The perfect tightness is just before the end track wants to lift off the ground.

Once satisfied with the tightness of the cable, you can cable clamp the cable together at the tab of the carriage. Cut off some of the remaining cable, leaving some for future adjustments. Tape or zip tie the remaining cable out of the way.

**At this point, you can run the railway in and out a few times, without any weight on it. Once satisfied with the carriage rolling properly, you can put the boat on the carriage and test again.**

For more information please contact: R&J Machine 1-800-461-7638

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