

How to Replace Garage Door Torsion Springs

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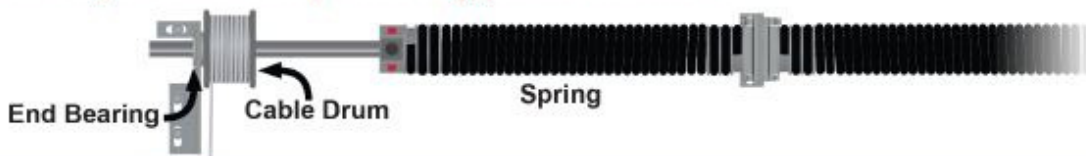


<https://ddmgaragedoors.com/diy-instructions/replace-garage-door-torsion-springs.php>



Do not replace springs until you have read and understood our instructions linked above.

CAUTION! These instructions are for springs centered above the door, mounted back to back to a spring anchor bracket. Beyond the end of the spring is a 4" diameter cable drum. Just beyond the cable drum is the end bearing plate. The cable unwraps off the back of the drum between the drum and the garage wall or jamb and travels down alongside the door, inside the track brackets and behind the roller stems. If your cables wrap differently, please contact us.



CAUTION! Replacing garage door torsion springs is dangerous because the springs are under tension. If you do not use the right tools and follow safe procedures, you could damage property, lose hands, limbs or even your life. Doing the job right is your responsibility. If you have any doubts about your ability to safely change your springs, we recommend you hire a professional to repair your garage door. **Safety First! Then work.**

CAUTION! Close the door, unplug the opener and disengage it from the door. Do not try to replace the springs with the door open. Wear safety glasses. Keep your hands away from the cones. If you have older winding cones, you may need thicker bars.



Gather tools: at least two 10" vise grips, an open end wrench set or adjustable wrenches, a socket wrench with sockets, a file, and two 1/2" X 18" winding bars. You'll also need safety glasses, a sturdy ladder, a ruler or tape measure, and a rag for cleaning your hands. Finally, make sure your garage is well-lit.



Measure Old & New Springs. Confirm that the lengths, inside diameters and the wire sizes are the same. **Measuring incorrectly can result in serious injury or death.**



Mark the drums and shaft to assure the door is level after reinstalling the springs. You will be reusing the existing set screw indentations.



Unwind the old springs. Mark tops of bars with tape. Insert the bar into one of the holes of the winding cone. Make sure it fits tightly and goes all the way in. Listen for a click. Next, while grasping the other end of the bar firmly, loosen the set screws with a 3/8" open-end wrench or small adjustable wrench. Be prepared for the torque to be transferred to the bar. Keep the bar in the cone at all times and keep your head out of the path of the winding cone.

When the cone is free, lower the bar and let it rest upon the top of the door. Insert a second bar into the next hole. Raise the end of the second bar enough to pull the first bar out of the cone. Lower the second bar to the top of the garage door as you did the first bar. Repeat these steps until the spring is completely unwound. Unwind the other spring if it is still wound and is not broken.



Remove the bolts that secure the stationary cones to the spring anchor bracket.



Vise grip the bracket to prevent the shaft from coming out of the bracket.



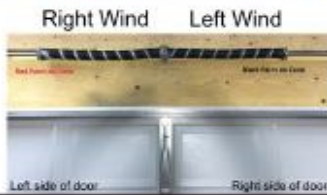
Slide the springs to the drums and loosen the setscrews.



Remove the end bearing plate and slide the drums and old springs off the shaft.



Here you will need to install the right wind spring on the left side and the left wind spring on the right side. Reinstall the end bearing plates.



Align the marks made earlier, tighten the set screws, install the cables, push the drum against the end bearing, and firmly vise grip the shaft. Reset the cable & the drum on the other side.



Pull the springs to the center support bracket. Align the shaft to the same centerline as the end bearings. Lubricate the bearing. Secure the cones.



Vise grip the track above the roller on one side.



Wind each spring. Insert a bar in the bottom hole. Raise the bar 90 degrees and insert a second bar. Turn each spring 7 1/2 turns for 7' high doors & 8 1/2 turns for 8' high doors. Keep your head out of the path of the winding cone.



Stretch the springs the thickness of a coil and tighten the set screws.



CAUTION! To prevent the door from knocking you off the ladder, carefully follow these procedures. 1. Remove the first vise grip from the track. If the door rises, remove tension from the springs until the door stays closed. 2. Remove the second vise grip from the shaft.



CAUTION! Test the door. It should stay down when closed, at the halfway point, and up when opened. If the door is heavy at the halfway point, do not raise it to the open position; the cables might come off. If this happens check the door balance instructions on our website.



Reconnect or reengage the opener. Plug in the power cord.

