

Replacing cables and springs

External tensioner.

1. Operate the system to open the tarp fully.

NOTE

- Two people are required to proceed with the next step.
- One person turns the crank.
- A second person is in an elevated platform and manually holds the tarp roll while keeping pressure on it.
- This manipulation allows to properly roll the tarp and keep it correctly aligned.

2. **Figure 1.** Remove the blocking screw, the TA2 connector, the pin and take the spring out of the tensioner.

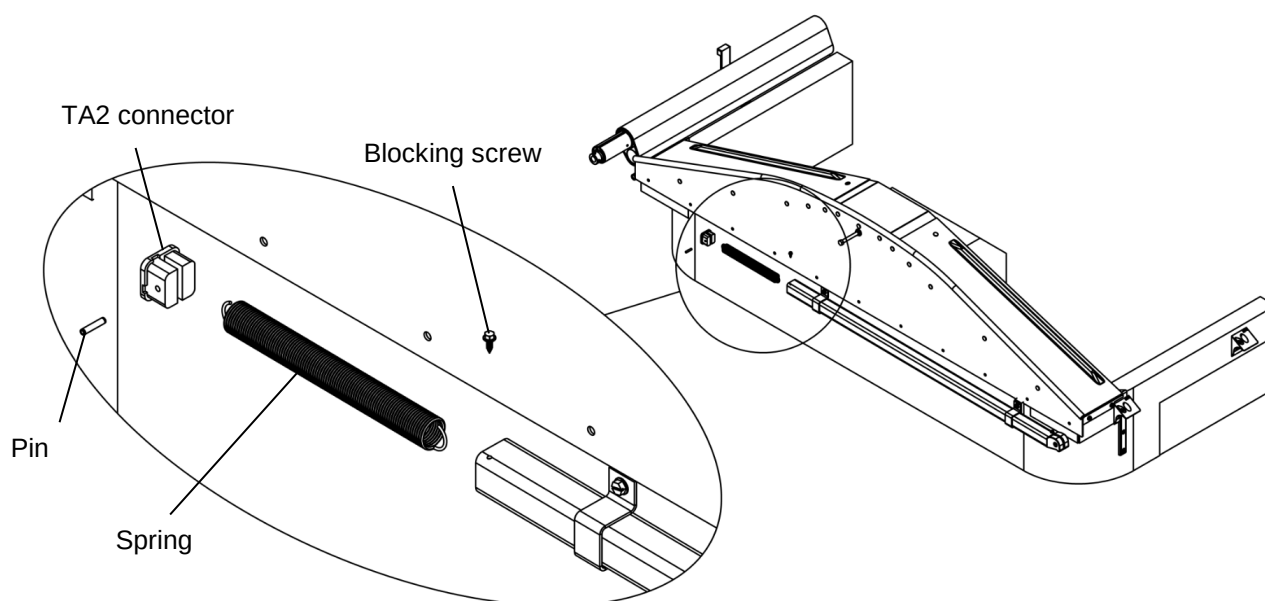


Figure 1

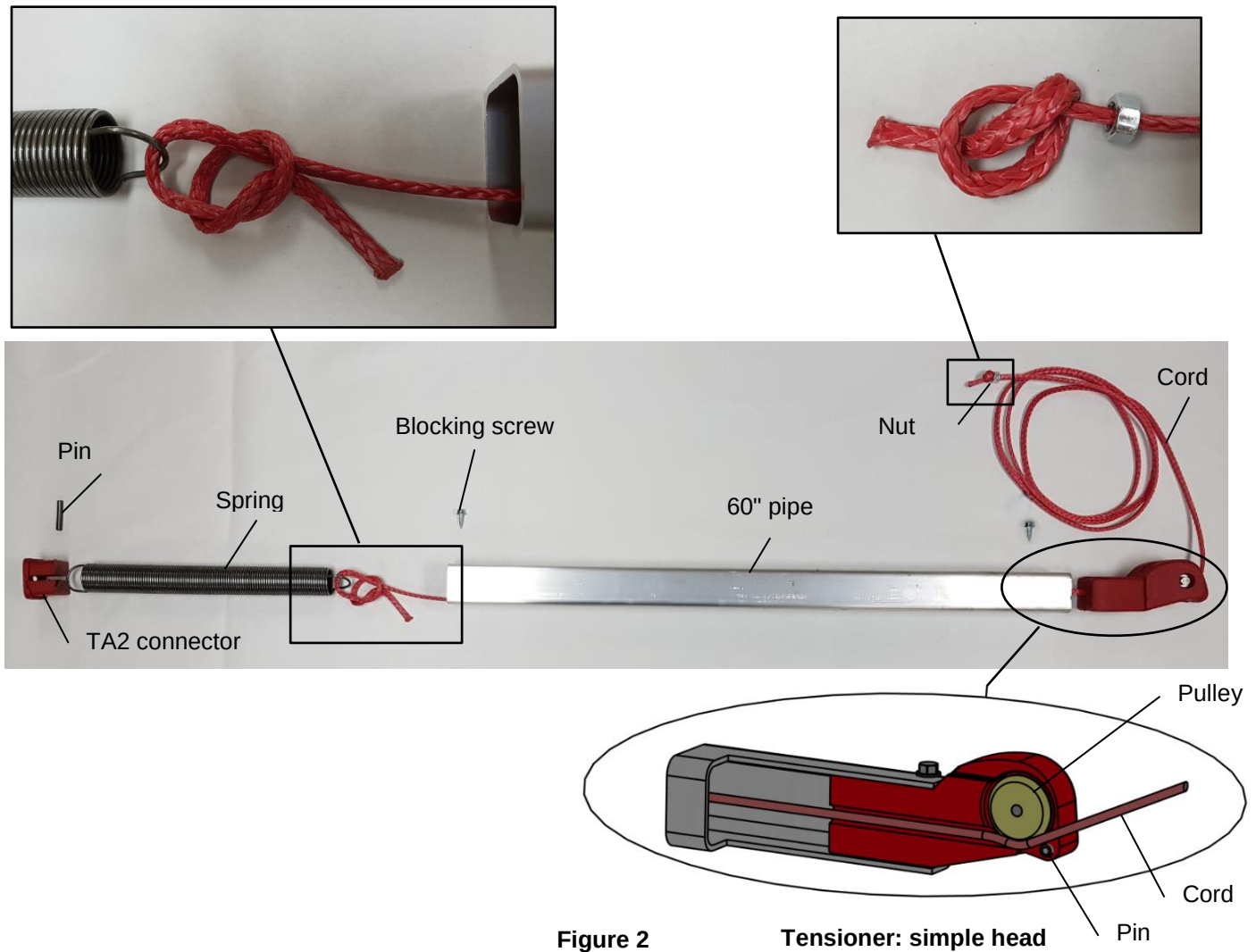
3. Diagnose the issue and verify the items listed below.

To verify

1. Cable 12' long • If cable is shorter it indicates it is damaged or cut.	2. End node attached to spring • Is the knot undone? • If yes: refer to figure 2 to know how to attach it back to the spring.
3. Spring ends • Are the spring hooks broken? • Is the space between the hook and the remainder of the spring open, therefore allowing the node to slide?	4. End node attached to the rolling pipe • Validate the presence of the node • Validate the presence of the nut
5. Pulley • Verify that the pulley is not stuck/seized or damaged, which would affect the proper functioning of the tensioner.	6. Polyurethane TA2 connector • Are the spring hooks broken? • Is the retention pin broken?

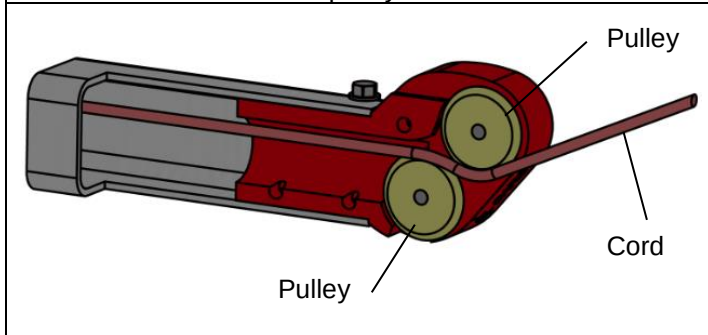
4. Replace any damaged or broken parts.

5. **Figure 2.** Insert the cord between the pin and the pulley from the tensioner head and attach the spring cable by making a sliding knot.



NOTE

- If the tensioner consists of a **double head**, insert the cord between the two pulleys.



6. Put the pin back into the TA2 connector and the spring back inside the tensioner.
7. Install the blocking screw.

8. **Figure 3.** Pull the cable to its **maximum** and install a “vise-grip” to hold the tension.

WARNING

- Ensure that the cable is completely and safely blocked before proceeding to the next steps.

1. Bring the cable over the central bolt.

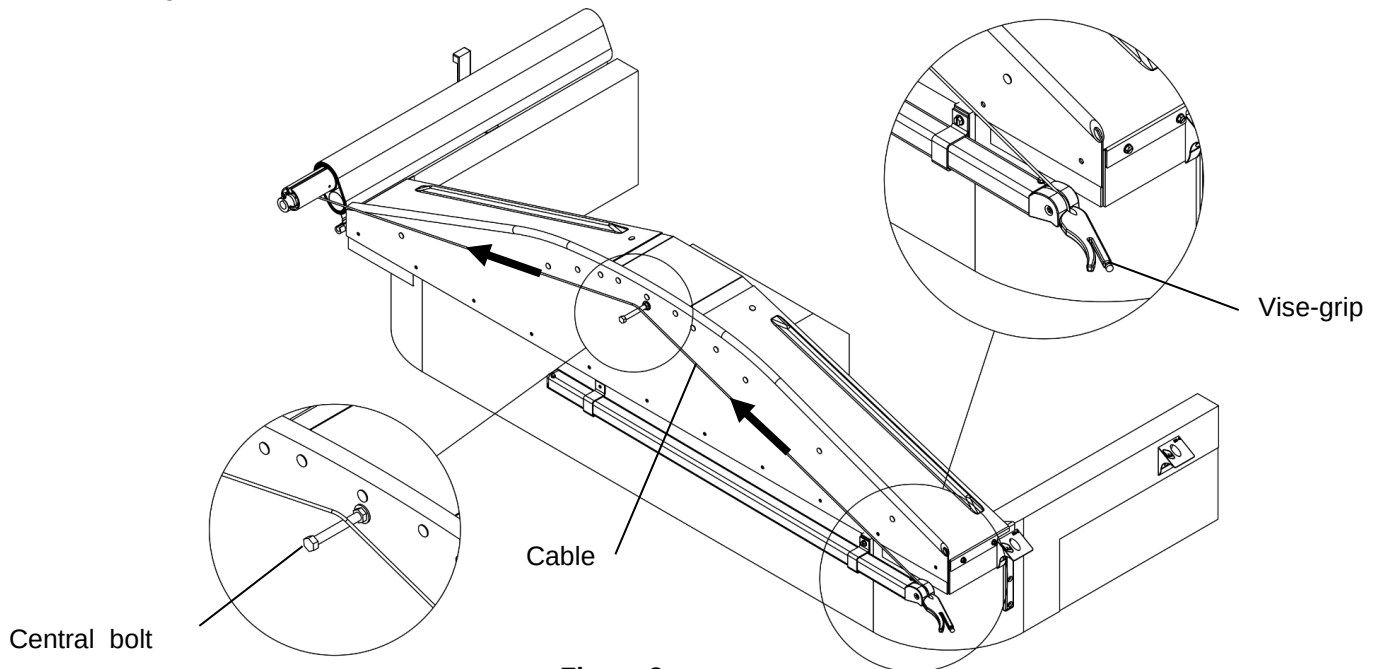


Figure 3

2. **Figure 4.** Slide the cable under the roll pipe and roll the cable around the pipe.

NOTICE

- Always make sure the cable stays under the roll pipe
- The cable must be installed 1" from the extremity and must be rolled from the exterior towards the interior.

3. Insert the nut and the knot, into the groove of the roll pipe, 1" from the edge.

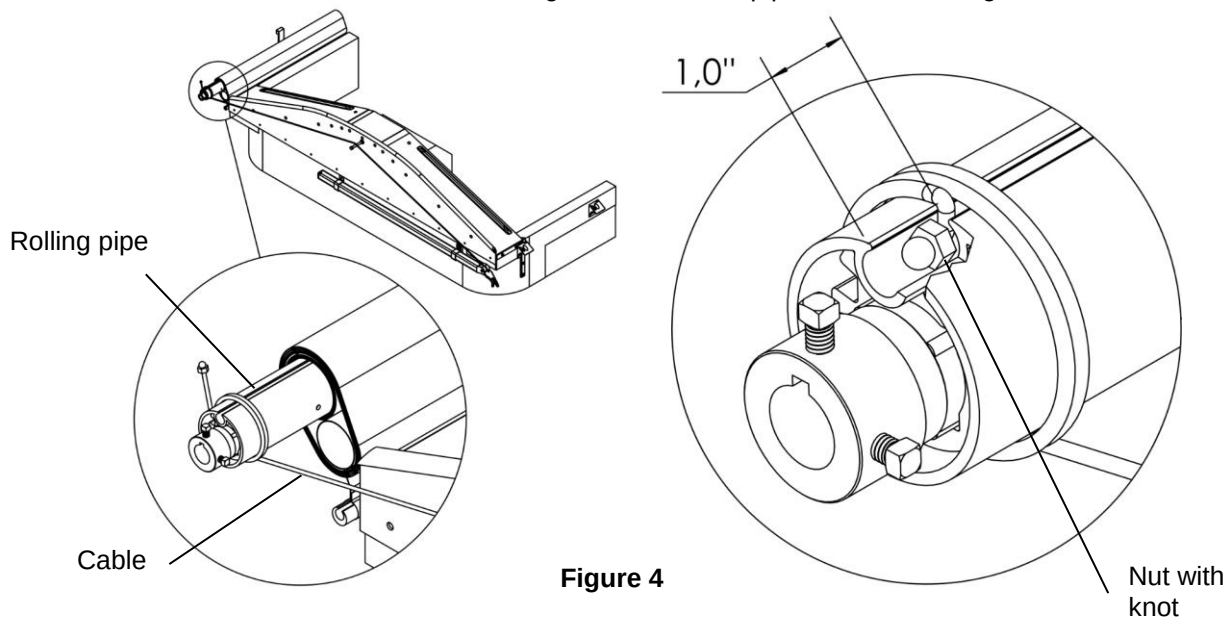


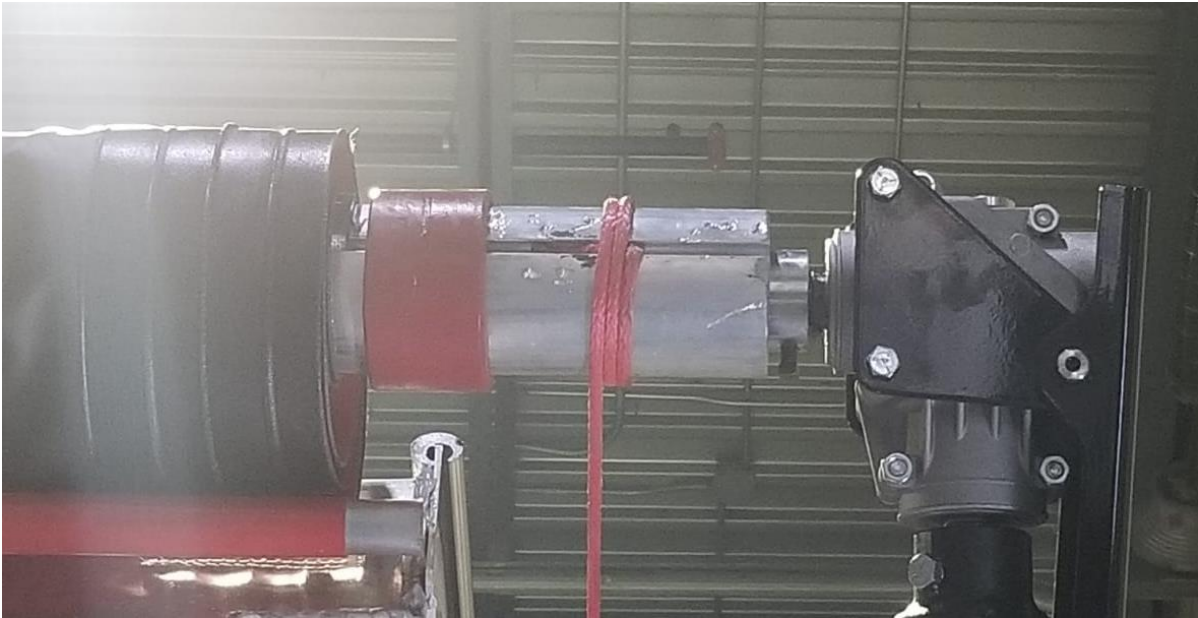
Figure 4

4. Remove the Vise-Grip safely.

Final result

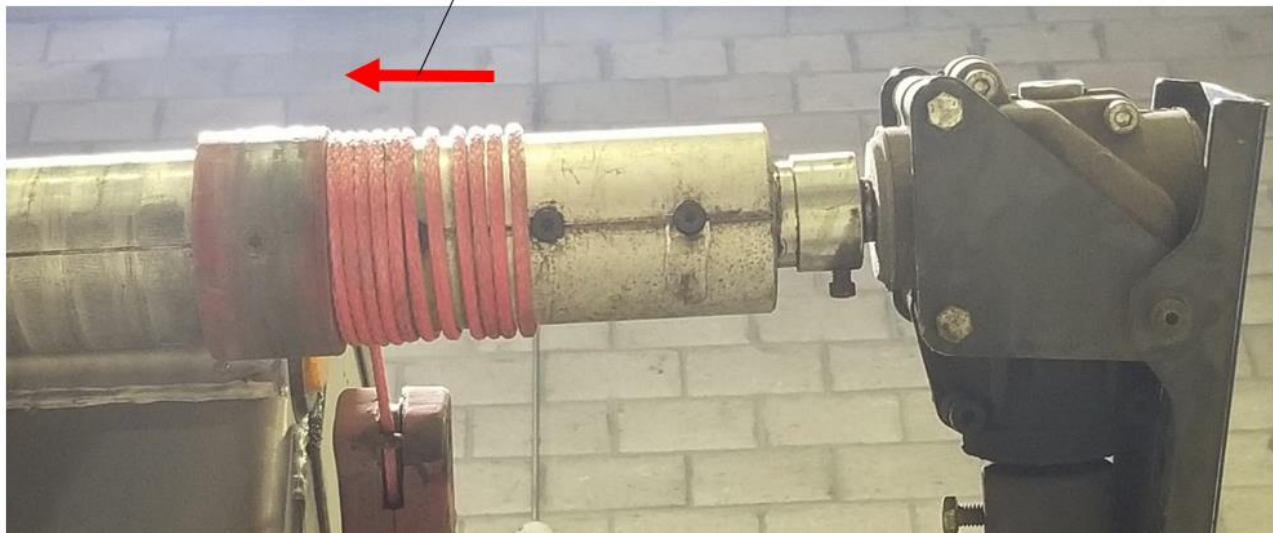
Ensure that cable roll on the pipe from the exterior toward interior.
Following pictures show how the cable need to roll up all through the opening sequence.

1. Position of the cable on the pipe when the tarp is fully open.



2. As the tarp close, cable roll on the pipe from the exterior toward interior. As shown on picture below.

Cable roll from exterior
toward interior.



Internal Tensioner

1. Ensure the tarp is closed without being anchored into the anchoring blocks.
2. Remove the hook from the mounting plate screwed on the trailer body.
3. **Figure 5.** Unscrew the locking screw and remove the internal tensioner from the roll pipe

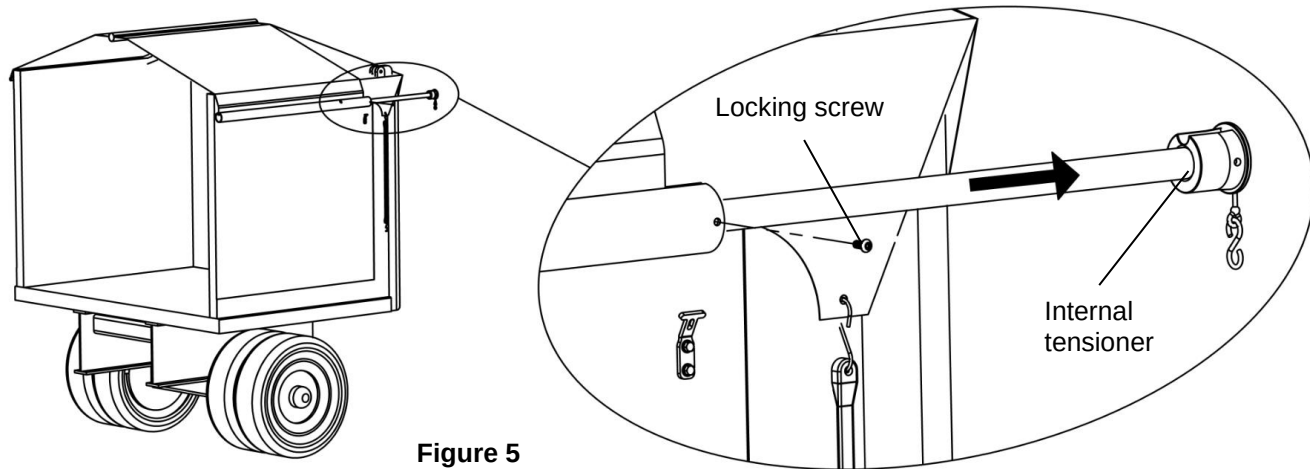


Figure 5

4. **Figure 6.** Remove the nut and the bolt on the extremity of the tensioner.
5. Remove the tensioner head and the spring.

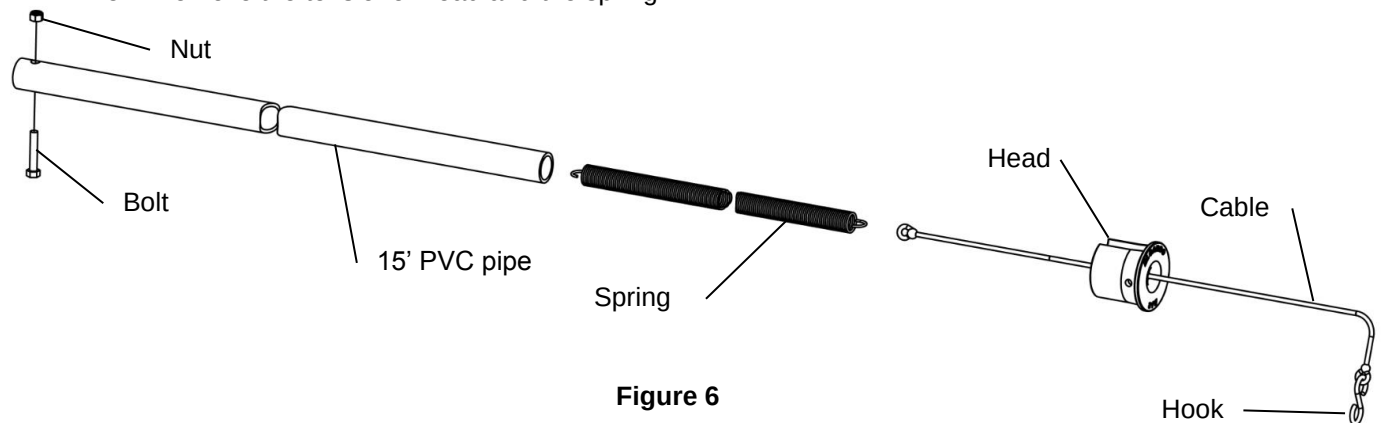


Figure 6

6. Diagnose any issue and verify the following items :

To verify

1. Cable 11'-6" long • If cable is shorter it indicates it is damaged or cut.	2. End node attached to spring • Is the knot undone? • If yes: refer to figure 2 to know how to attach it back to the spring.
3. Spring ends • Are the spring hooks broken? • Is the space between the hook and the remainder of the spring open, therefore allowing the knot to slide?	4. End node attached to hook • Validate the presence of the node • Verify the condition of the hook
5. PVC pipe • Verify the general condition of the PVC pipe • Is the PVC pipe cracked or broken?	

7. Replace any damaged or broken parts.
8. **Figure 7.** Attach the cord to the spring by making a sliding knot.

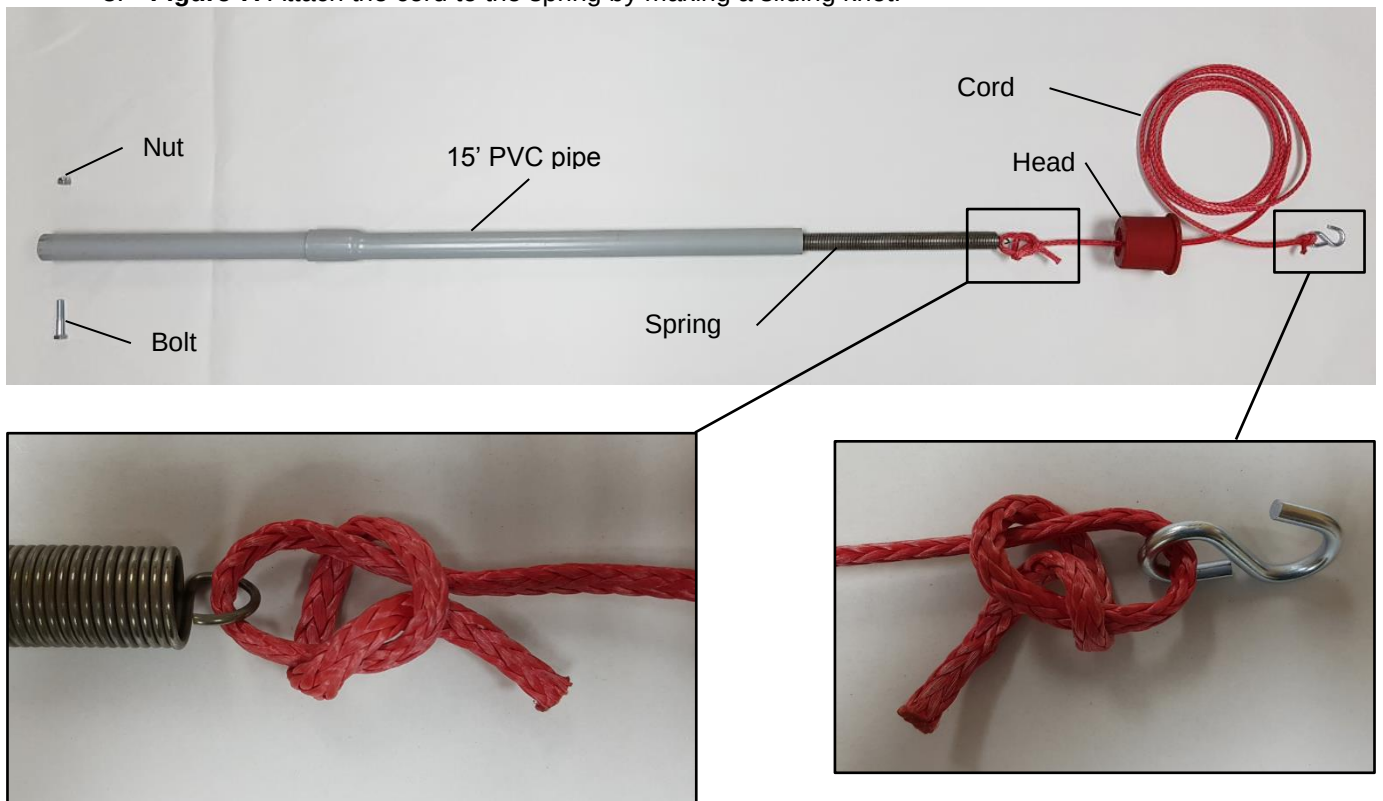


Figure 7

9. Insert the spring and the cord into the PVC pipe.
10. Install the tensioner head
11. Put back the bolt and nut at the other end and ensure the spring is well hooked.
12. **Figure 8.** Insert the tensioner (1) into the rolling pipe.

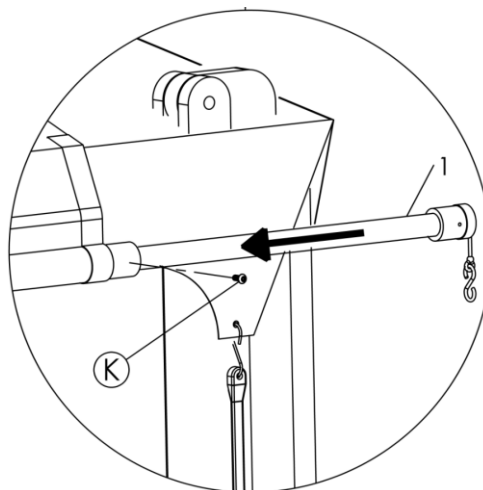


Figure 8

13. Install the blocking screw (K).
14. Hang the hook to the anchoring plate screwed on the trailer body.