Antenna mounting using pulleys and cable

This is an example loop and dipole antenna mounting to trees. Key points:

 The installed the pully and cable system allows for maintenance, adjustments, and repair of the antenna system from the ground, eliminating future climbing.



- The springs accommodate movement of trees in strong winds and storms.
 - The system has been operational for years through many storms without failure.
 - The only failure occurring resulted from a large tree falling onto a section of wire. The spring stretched to their limits, and the open eye bolts released preventing damage to the T3FD.
 - After clearing the tree from the antenna reinstallation occurred in about 2 hours, back on the air.
- Most project parts can be obtained at Home Depot and Tractor Supply.
 - Select springs based upon required tension, longer better.

Here is a failure example when a large tree fell onto my longer DIPOLE USA T3FD . The antenna is very robust sustaining virtually no damage. You can see how the hardware released the antenna preventing serious damage.



Pulleys Stainless Steel Cable Springs Other Hardware

DIPOLE END

LOOP CORNER

NOTES:

Open eye(s) release if overstressed and prevents antenna damage.

Springs must be selected that maintain desired tension, allowing for maximum possible movement of all trees in a storm.

Safety rope is attached to facilitate antenna maintenance, adjustment, and repair.









