



INSTALLATION INSTRUCTIONS

1535 Spring Kits

No. 0153801, 0153802, 0153803

Remove Existing Springs

The first step in adding a spring kit to the 1535 portable is to disconnect and remove the existing springs. To do this, follow these steps:

1. Raise the unit to the upright position and lock the unit in place.
2. Place a protective mat or piece of cardboard under the springs to ensure the floor is not damaged when the springs are removed.
3. Loosen (turn counterclockwise) the two jam nuts (B) and remove them from the tension studs.
4. Loosen (turn counterclockwise) the two jam nuts (C) to the ends of the tension studs but **DO NOT** remove them from the tension studs at this time; the springs are likely still slightly extended and are exerting a spring force.

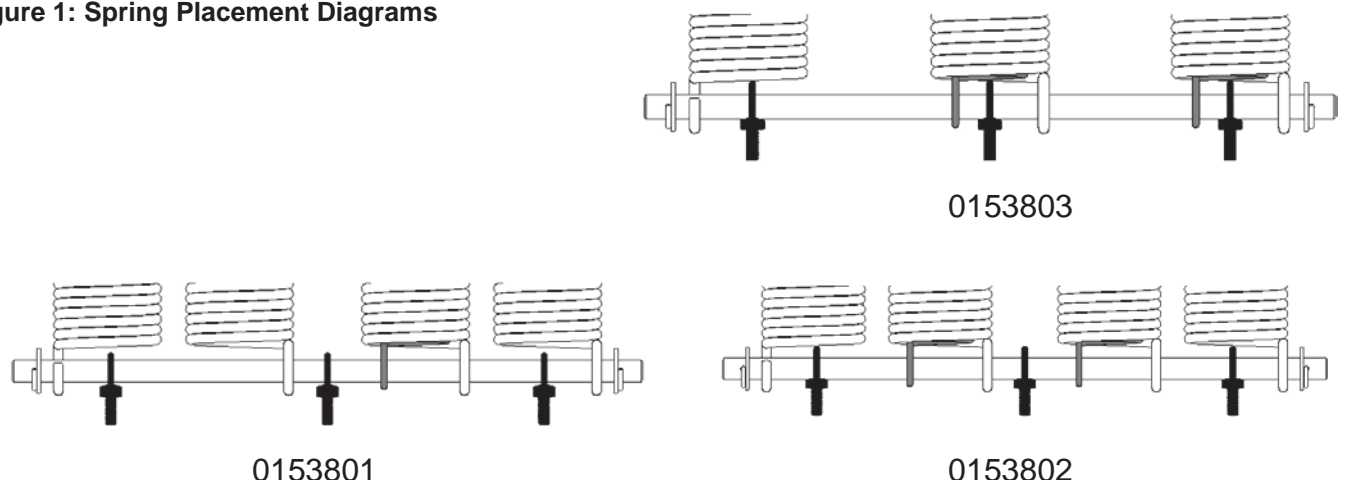
WARNING – Though most of the spring force should be out of the springs at this time, it is possible that they are still slightly extended which may cause the eye bolts to remain under slight tension. Therefore, it is important to keep the area in front of the eye bolts clear when removing them.

5. Remove the nuts and lock washers which attach the eye bolts at the opposite end of the springs.
6. Remove the jam nuts (C) from the tension studs at this time; remove the springs, forward spring bar, and tension studs from the portable and move them to a clear area.
7. At this point the springs may be swapped out as necessary depending on which spring kit is being installed.

Installing the New Springs

At this point the springs included in the spring kit need to be placed onto the front and rear spring bars before placing the spring carriage back into the portable. To assist in showing the order in which the springs and eye bolts are placed on the rear spring bar, refer to Figure 1 below.

Figure 1: Spring Placement Diagrams



In the figure, eye bolts are black, nested springs are grey and outer tension springs are white. The three eye bolts will use the middle and outer-most holes in the base frame.

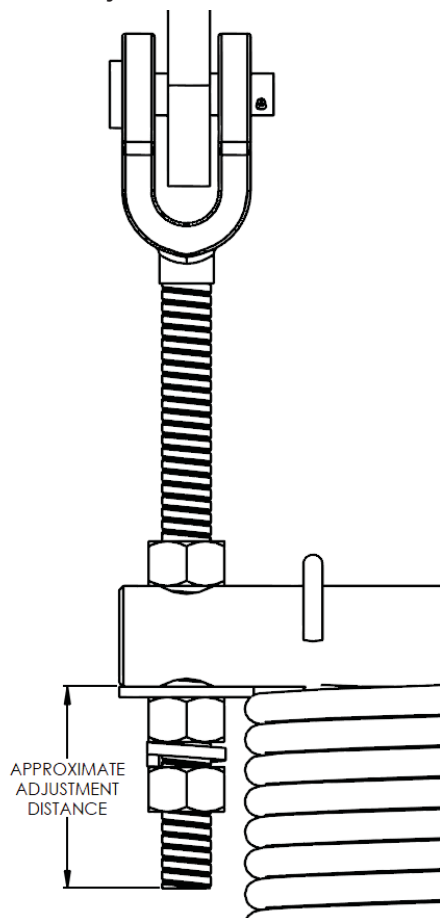
The reference tables below can be used to assist in the installation of the spring kits if the weight of the shot clock/s placed on a portable is known. Using the weight ranges in the left-hand column, the initial distance to which the forward spring bar should be adjusted is given in the "Approximate Distance" column. For clarification on this measurement, see Figure 2.

Tables 1 & 2: Installation Reference Tables

1535 8' Boom		
Pounds of Shot Clock Weight	Apprx. Adjustment Distance (in):	Spring Kit #:
0	4.5	0153803
50	7	0153803
75	4	0153801
100	5.5	0153801
125	6.5	0153801
150	5	0153802

1535 10' 8" Boom		
Pounds of Shot Clock Weight	Apprx. Adjustment Distance (in):	Spring Kit #:
0	3	0153801
50	5.5	0153801
75	6.5	0153801
100	5	0153802
125	6	0153802
150	7	0153802


Figure 2: Initial Adjustment Distance of Forward Spring Bar



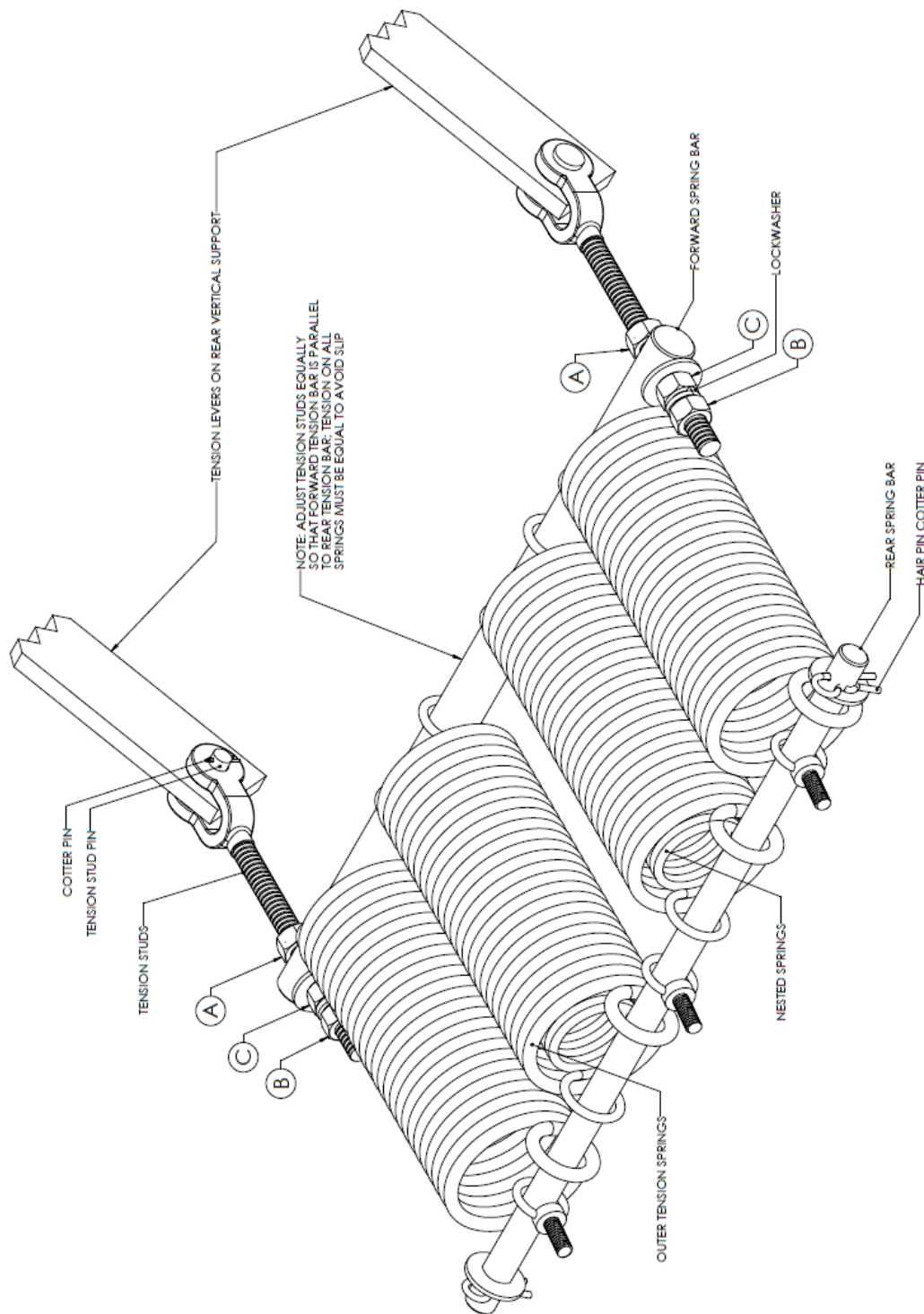
Repeat the disassembly process in reverse, attaching the eye bolts first followed by sliding the forward spring bar over the tension studs and attaching the jam nuts. It may be difficult to get both the forward spring bar and the jam nuts onto the threads of the tension studs initially, in which case tensioning straps may be needed. It can be helpful to place the spring carriage on a small box or similar object so as to support the weight of the springs while the eye bolts are inserted and attached to the base frame.

Installation Is Complete

This concludes the installation of the spring kit. If the unit is difficult to raise or lower after installation, follow the “Difficulty in Raising/Lowering the Unit” sections from the owners manual.

 **WARNING:** Cancer and Reproductive Harm –
For more information go to www.p65warnings.ca.gov

Parts Reference Diagram:



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