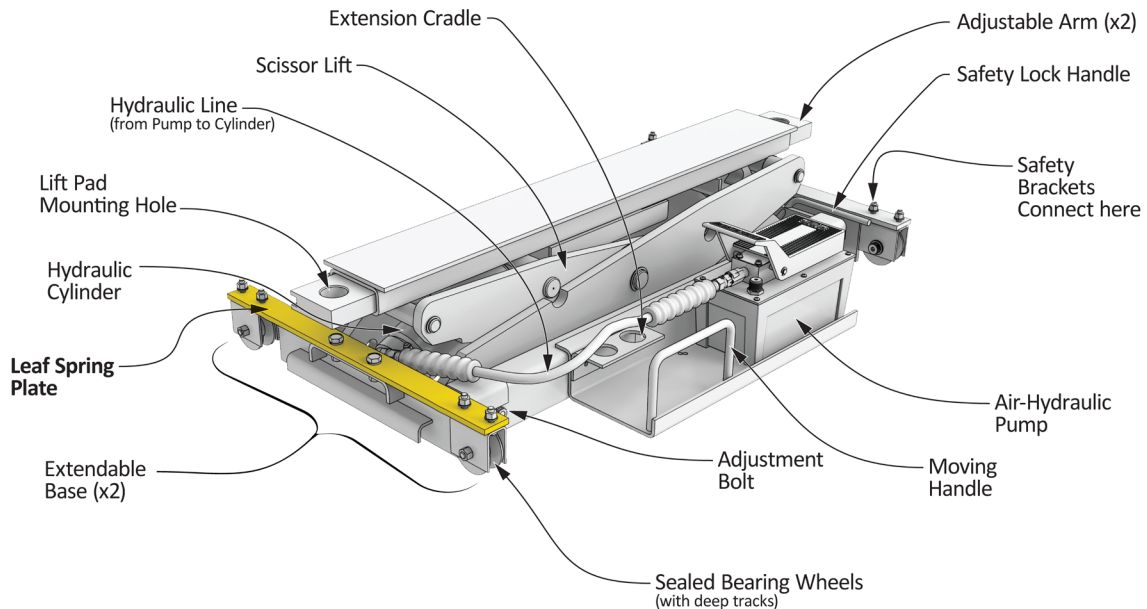


BendPak Technical Service Bulletin

Rolling Bridge Jack Leaf Spring Operating Deflection

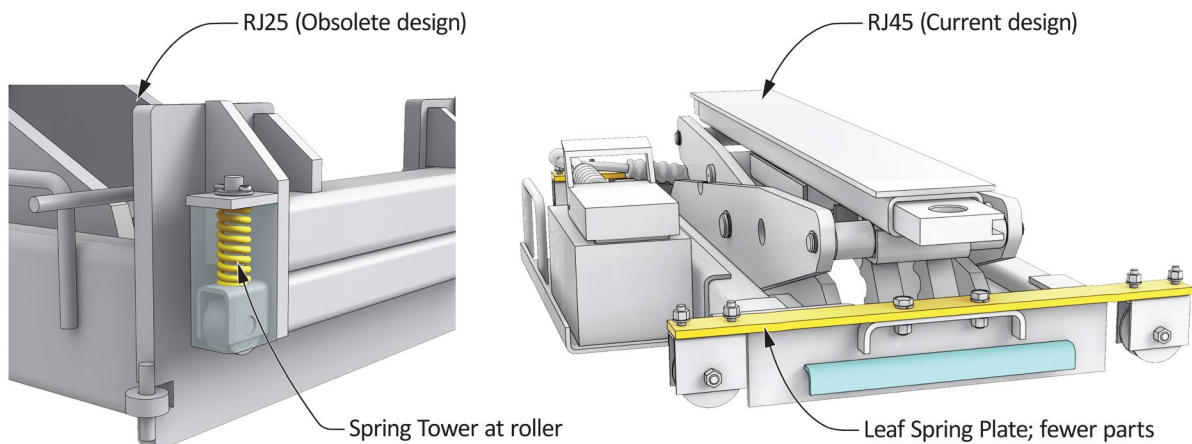
BendPak TSB 190 - 112025

This Technical Service Bulletin describes normal operating leaf spring deflection in Rolling Bridge Jacks. This TSB applies to Rolling Bridge Jacks shipped with the Installation and Operation Manual 5900093.



The Leaf Spring Plate will flex and deflect under normal use loads, and then return to its undeflected state once the Rolling Bridge Jack has been fully lowered. This is by design, and is entirely normal. This spring deflection **does not** present any manufacturer defects or flaws, rather, it is the **proper** operation of that Leaf Spring Plate.

Older design models (now obsolete) of the Rolling Bridge Jack used Spring Towers to absorb the same load without damaging rollers; that design was updated to the current Leaf Spring Plate to provide the same degree of flex and recovery with fewer parts, fewer points of failure, and fewer customer in-field issues.

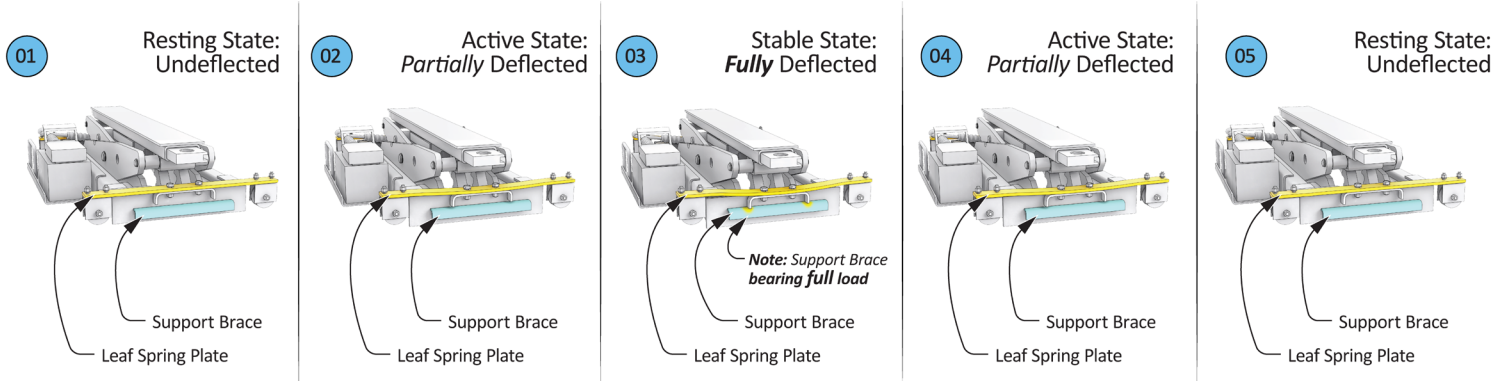


Leaf Spring Plates and how they function in the bridge jacks

There are a number of points to consider regarding the Rolling Bridge Jack's Leaf Spring Plates:

- These are not flat bar supports; they are leaf springs *designed* to deflect under load.
- They replace the older version vertical-mounted spring towers, which were more complex and introduced additional service issues.
- This elegant design eliminates unnecessary serviceable parts and enhances reliability.

Rolling Bridge Jack Leaf Spring Plate Operation



The Leaf Spring Plate *starts* in a resting state, with no deflection. As the Rolling Bridge Jack is raised, and begins bearing load from the vehicle being raised, the Leaf Spring Plate starts to deflect, as intended. At full deflection, the load rests on the Support Brace. Once the Rolling Bridge Jack is lowered again, decreasing load, the Leaf Spring Plate *recovers* to its original undelected condition. *This is how Springs typically work.*

How It Works:

- When a load is applied, the leaf springs deflect, and the jack settles on solid supports (visible in illustration above).
- The jack is *never* supported solely by the leaf springs when under load.
- The sealed-bearing wheels with deep wheel tracks ensure smooth movement and prevent the jack from jumping off the rails during repositioning.
- Once the load is removed, the leaf springs rebound, lifting the jack off the support brackets and returning it to a rolling state.

Why:

- Safer and more efficient design
- Fewer moving/serviceable parts
- Improved rolling and repositioning
- Simpler engineering = greater reliability

Note: In *rare* cases, if the jack does not adequately rise off the support bracket after load removal, it *may* indicate that the leaf springs need replacement.

If you experience difficulties with your Rolling Bridge Jack, technical support and service is available from your dealer, on the Web at bendpak.com/support, by email at support@bendpak.com, or by phone at **(800) 253-2363**, follow the prompts to reach service. Online chat is also available at www.bendpak.com