



DIAMOND

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WIRE SPRING COMPANY

Established 1939

Annual Maintenance Checklist for Trip Springs

To ensure your spring's component performs as intended, follow this annual service protocol:

- **Tension Calibration:** Proper tension is critical; A common rule of thumb is that you should be able to slide a **business card or a piece of paper** between the coils.
 - **Full Trip Adjustment:** Tighten the top locknut roughly four complete rotations beyond the point where coils begin to separate.
 - **Securing:** Always tighten the bottom jam nuts to ensure the eye bolt remains in position during high-impact tripping actions.
- **Corrosion Mitigation:** Road salt is a spring's primary enemy.
 - **Visual Inspection:** Check for deep pitting, rust patches, or flaking paint. Surface rust can lead to stress fractures over time.
 - **Cleaning & Painting:** Wash springs with soap and water post-season to remove salt. Touch up any exposed metal with black paint or a protective powder coating to prevent oxidation.
- **Structural Integrity Check:**
 - **Eye Bolts & Fasteners:** Inspect eye bolts for bending or thinning at the hook point. Replace any fasteners that show signs of "egging" or stretching.
 - **Pivot Lubrication:** While the spring itself doesn't need grease, the **pivot pins and hinges** they pull against should be lubricated with high-quality grease to ensure smooth movement.
- **Replacement Indicators:** Replace the springs immediately if you notice:
 - **Inconsistent Return:** The blade fails to return to its original vertical position after hitting an obstacle.
 - **Visible Gaps:** Uneven spacing between coils when the plow is at rest.
 - **Fatigue:** Any visible cracks, splits, or a noticeable drop in the force required to trip the blade.

By incorporating these checks into your pre-season routine, you can leverage the reduced downtime and lower maintenance costs that high-quality trip springs provide.

Replacing snowplow trip springs is a relatively quick task, though it requires caution due to the high tension involved. While specific models may have unique hardware, most manufacturers follow this general procedure. Diamond Wire takes no liability during install or replacement of springs. Full terms and conditions found on our [website](https://www.diamondwire.com).

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