PRODUCT SPOTLIGHT



HENDRICKSON HAULMAAX®

PROGRESSIVE LOAD SPRING (ATRO PART NUMBER LP50-24778)

In July 2014, Hendrickson began using their progressive load spring on all new production vehicles with the Haulmaax suspension. The overall height of the Progressive Load Spring is 4 1/4" in comparison to the Auxiliary Load Spring height of 3 5/16". Because of the increased height of the progressive load spring, two auxiliary shims are typical instead of the 3 shims used on auxiliary load spring. When either load spring's unloaded height measures less than 3", the spring needs replaced.

ATRO's Progressive Load Spring LP50-24778 is designed and engineered to be compatible with ATRO's LP50-24179 Bolster Spring, providing maximum control and suspension performance. ATRO recommends removing or adding load spring shims (ATRO MS50-29791) to achieve the desired level of control and ride. Please refer to ATRO Progressive Load Spring Installation Instruction #DC001-022615. ATRO's Progressive Load Spring will maintain contact with the shim plate at all times.

Progressive Load Spring

Auxiliary Load Spring

3 5/16"

Note: In all cases, there must be at least one shim present per side.

ATRO's Progressive Load Spring will replace the OEM load spring on newer trucks and can be retrofitted on older models to improve the suspension performance.

ATRO's polyurethane material, coupled with ATRO's design and engineering, will provide the fleet with:

- Superior strength and durability
- Resistance to chemical attack
- Improved suspension performance and life

The LP50-24778 is also available in the following ATRO suspension kits:

KT50-25002

KT50-25003

- LP50-24745
- LP50-24747

- LP50-24902
- LP50-24746

ATRO POLYURETHANES



KEY FEATURES: The ATRO Difference

ATRO maintains 11 proprietary formulations, ATRO Polys, each having unique physical properties to optimize performance. Whether absorbing a shock or transferring energy, ATRO is engineered to function based on the demands of the part. ATRO provides polyurethane parts and solutions for heavy trucks.

WHAT MAKES ATRO PARTS DIFFERENT ...

The Material



11 PROPRIETARY ATRO POLY FORMULAS

Upon evaluation of the application and the purpose/function of the part, ATRO will determine which specifically formulated poly. ATRO meets or exceeds OE specs, matches or improves ride performance.

POLYURETHANES ARE DIFFERENT

- Ranging Durometer
- Tensile Strength
- Tear Strength
- Compression Set
- Ultimate Elongation
- Rebound



Atro Polyurethane is better than Rubber

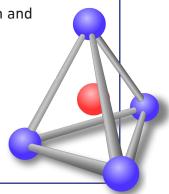


STRONGER MATERIAL

- Atro Polys are specifically engineered to the function of the part providing added durability and reliability to the suspension.
- ATRO Polys absorb energy, some deflect energy. Some maintain higher rebound or greater compression. Each part engineered for purpose and functionality.
- Rubber primarily maintains one set of properties.
- Atro Polys maintains at least 2x or greater tensile and tear strength and 2x the elongation vs. rubber.

CHEMICALLY RESISTANT

- ATRO Polys are impervious to oil, grease, brine, cleaning solvents, hydraulic fluids and diesel fuel.
- · Rubber deteriorates in similar conditions.





POLYURETHANE PARTS | SOLUTIONS FOR HEAVY TRUCKS

ATROBUSHING.COM ©2017 Atro Engineered Systems, Inc. 6 Bolte Lane St. Clair, Missouri 63077 | U.S.A. (800) 325.6114 | Fax (866) 920.2005