

TECHNICAL BULLETIN

ATRO PARTS
ENGINEERED | DURABLE | RELIABLE
MANUFACTURED IN ST. CLAIR, MISSOURI | U.S.A.

HN SUSPENSIONS:

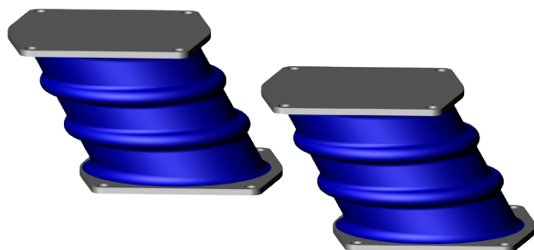
EVALUATION/REPLACEMENT OF AUXILIARY SPRING AND SHIMS

Once bolster springs are installed, the following evaluation should be performed. All measurements should be made on an **unloaded** truck.

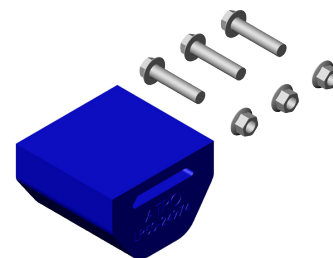
1. Measure height of auxiliary spring. Normal height of unloaded auxiliary spring is 3 3/8". If the height of the unloaded auxiliary spring is 3" or less, the auxiliary spring should be replaced.
2. Measure distance between saddle V bracket and bottom of auxiliary spring. Gap should not be larger than 3/8".
3. Add or remove shims above the auxiliary spring to achieve proper clearance.



NOTE: Failure to properly shim will force the load springs (LP50-24000) to accept the full load and prevent the auxiliary spring (LP50-24974) from engaging and carrying the significant portion of the load it is designed and required to carry. This produces additional stress on the load pads (LP50-24000) and may cause premature failure and could void warranty.



BOLSTER SPRING KIT
LP50-24000



AUXILIARY LOAD SPRING KIT
LP50-24974

ATRO POLYURETHANES

ATRO PARTS
ENGINEERED | DURABLE | RELIABLE
MANUFACTURED IN ST. CLAIR, MISSOURI | U.S.A.

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

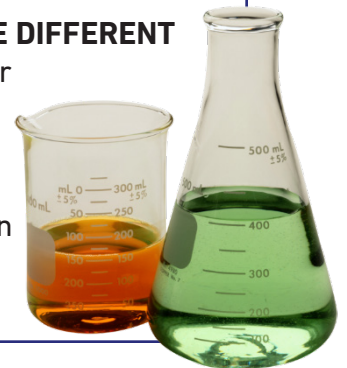


11 PROPRIETARY ATRO POLY FORMULAS

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



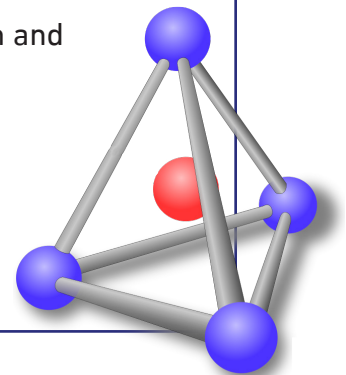
STRONGER MATERIAL

- 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.



CELEBRATING 30 YEARS
ATRO
POLYURETHANE • SOLUTIONS

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