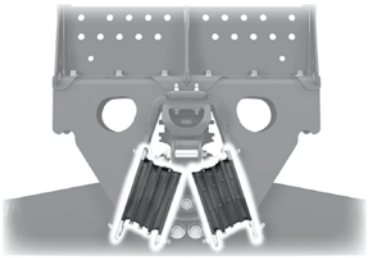
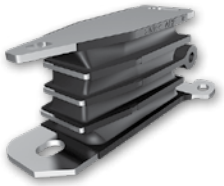
# BOLSTER SPRINGS / SHEAR SPRINGS

- Engineering expertise
- Outstanding performance
- Genuine Hendrickson Parts



**Hendrickson Bolster Springs*** incorporate unique designs and high-grade rubber to boost performance and withstand heavy loads in rugged applications. For aftermarket replacement of the springs, Hendrickson supplies the same genuine components for service purposes as installed in our original suspensions. These components have the same design, construction and performance, which helps ensure high end user satisfaction and peak system performance. Correct setup and regular inspections are key in maintaining optimum bolster spring and suspension operation.





HAULMAAX® Shown







## HAULMAAX® EX Bolster Springs

- Extra wide bolster spring centers and a unique progressive load spring provide exceptional stability for demanding applications such as refuse, concrete mixers and dump.
- The optimized angle allows bolster springs to carry the majority of the payload and still react to braking and accelerating forces with minimal displacement.

## Tie-Bar Bolster Springs**

- While mandatory for 46,000 and 52,000 lb. capacity suspensions, an optional tie-bar version can be used on 40,000 lb. capacity suspensions.
- Provides greater bolster column stiffness.
- Improves suspension performance even when axles are misaligned.
- Remains consistent with the ride quality and stability of the original design.

## HAULMAAX Bolster Springs

- HAULMAAX bolster springs work in conjunction with the load springs and shim plates to provide outstanding ride quality in both loaded and unloaded conditions.
- Load spring shims can be adjusted for different empty body weights, making HAULMAAX suspensions another ideal choice for trucks being used in varying applications.

## HN® Bolster Springs

- Proprietary rubber compounds are used to provide ideal articulation and ride quality.
- As payload increases, the bolster springs continue to compress until the load springs engage. This produces a secondary system stiffness that provides extra ride stability under loaded conditions.
- HN bolster springs absorb vertical road inputs as well as fore / aft shock to deliver superior driver comfort and handling.

## ULTIMAAX® Shear Springs

- Provides superb ride quality in the unloaded condition.
- Reacts to longitudinal loads during braking and acceleration for minimal displacement.

**NOTE**: * Bolster springs should always be replaced with Hendrickson genuine bolster springs and in pairs per beam. For more information, refer to Hendrickson Technical Publication Nos. 17730-328 (HAULMAAX EX), 17730-244 (HAULMAAX) and 17730-227 (HN).

** Tie-bar bolster springs are available for both HAULMAAX EX and HAULMAAX 46,000 and 52,000 lb. capacity suspensions and offered as an aftermarket option for the HAULMAAX EX and HAULMAAX 40,000 lb capacity.

GENUINE PARTS

*To learn more about Hendrickson Genuine Parts call 855.743.3733 or visit www.maaxuptime.com*

HENDRICKSON
*The World Rides On Us®*

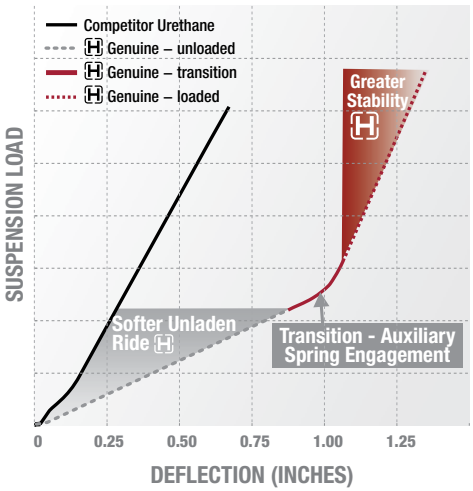
## SHEAR AND COMPRESSION BOLSTER SPRING LOADS

The shear load component enables high suspension articulation and a lower unladen suspension spring rate. The compression load component allows the suspension to carry heavy loads. Trust genuine Hendrickson bolster springs to deliver these benefits and enable HN®, HAULMAAX®EX and ULTIMAAX®suspensions to operate and perform as designed.

For optimum performance, HN, HAULMAAX, HAULMAAX EX or ULTIMAAX suspensions require a soft spring rate when unloaded and a stiff spring rate when loaded. Typical competitor urethane bolster springs do not meet Hendrickson's spring rate criteria, and their use will void any applicable Hendrickson warranty. In addition, competitor urethane bolsters can degrade ride quality and create excessive stress on the suspension. Hendrickson does not authorize the use of competitor urethane components in any HN, HAULMAAX, HAULMAAX EX or ULTIMAAX suspension system.




### Bolster Spring System Stiffness
**Hendrickson Genuine vs. Competitor Urethane**




Above data is based upon internal testing. Actual product specifications and performance may vary on suspension and vehicle configuration, operation, service and other factors.

## HAULMAAX EX BOLSTER SPRING SERVICE KITS

### Vehicles built prior to July 15, 2024

**Kit No. 34013-526, One Beam (40K lb. capacity)**
- (4) Bolster Springs
- (1) Jounce Stop
- (1) Progressive Load Spring
- (8) M12 x 35 mm Round Head Square Neck Bolts
- (6) M12 x 50 mm Flange Bolts
- (4) M12 x 65 mm Flange Bolts
- (18) M12 Flange Nuts
- (4) M20 x 50 mm Flange Bolts
- (4) M20 Flange Nuts

**Kit No. 34013-527, One Beam (Tie-Bar, 46K•52K lb. capacity)**
- (4) Tie-Bar Bolster Springs
- (2) Tie-Bar Bolster Spring Spacers
- (1) Jounce Stop
- (1) Progressive Load Spring
- (8) M12 x 35 mm Round Head Square Neck Bolts
- (6) M12 x 50 mm Flange Bolts
- (4) M12 x 65 mm Flange Bolts
- (2) M12 x 270 mm Flange Bolts
- (18) M12 Flange Nuts
- (4) M20 x 50 mm Flange Bolts
- (4) M20 Flange Nuts

*Kit No. 34013-514 Shown*





*Kit No. 34013-527 Shown*

### Vehicles built after July 15, 2024

**Kit No. 34013-514, One Beam (Tie-Bar, 46K•52K lb. capacity)**
- (4) Tie-Bar Bolster Springs
- (2) Tie-Bar Bolster Spring Spacers
- (1) Jounce Stop
- (1) Progressive Load Spring
- (12) M12 x 35 mm Round Head Square Neck Bolts
- (6) M12 x 50 mm Flange Bolts
- (4) M12 x 65 mm Flange Bolts
- (2) M12 x 270 mm Flange Bolts
- (22) M12 Flange Nuts

**Kit No. 34013-513, One Beam (40K lb. capacity)**
- (4) Bolster Springs
- (1) Jounce Stop
- (1) Progressive Load Spring
- (12) M12 x 35 mm Round Head Square Neck Bolts
- (6) M12 x 50 mm Flange Bolts
- (4) M12 x 65 mm Flange Bolts
- (22) M12 Flange Nuts

## HAULMAAX



**Tie-Bar Bolster Springs and Progressive Load Spring Service Kit No. 60961-712**
- (2) Tie-Bar Bolster Spring Kit No. 64179-048
- (1) Progressive Load Spring Kit No. 60961-745



**Tie-Bar Bolster Springs Service Kit No. 64179-048**
- (2) Tie-Bar Bolster Springs
- (1) Bolster Spring Spacer
- (1) Wear Plate
- (1) ½" Tie-bar Bolt
- (9) ½" Flange Locknuts



**Bolster Springs Service Kit No. 64179-049**
- (2) Bolster Springs
- (1) Wear Plate
- (8) ½" Flange Locknuts

## HN



**Bolster Springs Service Kit No. 60879-000**
Vehicles built after Feb. 1996
- (2) Bolster Springs

**Bolster Springs Service Kit No. 64718-000**
Vehicles built prior to Feb. 1996
- (2) Bolster Springs

## ULTIMAAX



**Shear Spring Service Kit No. 60961-877**
- (8) Shear Springs

**Shear and Progressive Load Spring Kit No. 60961-876 (See SP-317)**
- (1) 60961-877
- (1) 60961-822
- (1) 60961-812
- (1) 34013-197
- (1) 60961-879
- (1) P-80 Lubricant

*Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.*
*All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.*
*Contact Hendrickson for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.*

*Call Hendrickson at **630.910.2800** or **855.RIDERED (743.3733)** for additional information*

HENDRICKSON®
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