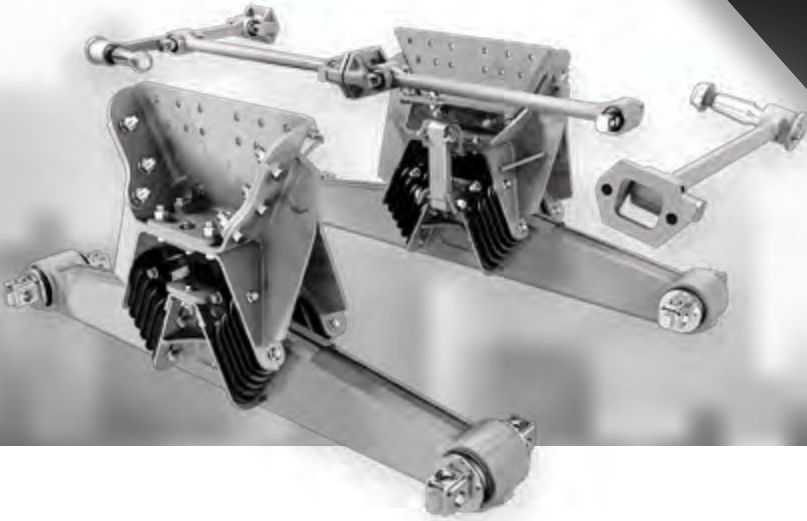# Now it's even better...

HAULMAAX® Progressive Load Spring (PLS)

As of July 2014, Hendrickson Truck Commercial Vehicle Systems began its launch of the new load spring design (see Figure 1) for HAULMAAX® rear suspensions on new production vehicles.

PLS Features

- The PLS design provides improved ride and driver comfort. Engineered to always be engaged to deliver a smooth and constant spring rate curve, this helps eliminate suspension strike-through events due to rough road conditions.

- Constructed to carry high loads in a small area providing long component life and system performance as designed.

- HAULMAAX is now equipped with only two (2) load spring shims to eliminate shim adjustments for most applications.

Here's how the progressive load spring works:

Unloaded Condition — In the empty condition, the diagonally mounted rubber bolster springs act in shear and compression to help provide optimum spring deflection for outstanding ride quality. Bolster springs absorb vertical road inputs and fore/aft shock. The progressive load spring design works in conjunction with the bolster springs to improve empty ride quality, see Figure 2.

Loaded Condition — As payload increases, the bolster springs compress and increase in stiffness, while maintaining excellent ride quality. With higher loading, the progressive load spring engages further for additional stability, see Figure 3.

Figure 1

Current Progressive Load Spring

Figure 2

UNLOADED CONDITION

Figure 3

LOADED CONDITION

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Progressive Load Spring

Load Spring Inspection and Replacement

The progressive load spring appears slightly different than the previous auxiliary load spring, see Figure 4. However, the same inspection recommendations and component replacement procedures are to be used for both load springs with the exception of the quantity of the load spring shims.

The PLS and the auxiliary load spring require replacement if the unloaded height is less than 3", see Figure 4.

Hendrickson gauge, Literature No. 48422-546 is available to help measure the load spring height plus bolster spring replacement criteria.

- Available free of charge from your Hendrickson representative or order online at: hendrickson-intl.com/litform.
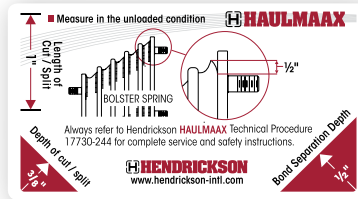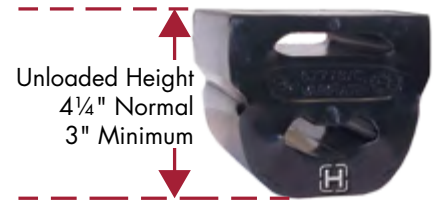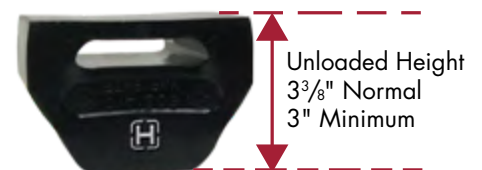
Figure 4

Progressive Load Spring

Unloaded Height
4¼" Normal
3" Minimum

Auxiliary Load Spring

Unloaded Height
3⅜" Normal
3" Minimum

Progressive Load Spring Service Kits

60961-747

Tandem to convert from the previous auxiliary load spring to the PLS. Requires installation of PLS on both sides of the tandem suspension to operate properly.

60961-745 **Single**

60961-712

Progressive Load Spring and Tie-bar Bolster Springs with Wear Plates replacement for half the suspension.
Two kits required for a tandem replacement.

60961-746

Weight Bias Kit helps adjust for vehicle lean conditions that may be induced by a side-to-side vehicle weight bias found with particular types of vehicle bodies or vehicle-mounted equipment used in certain applications (example: side loading refuse and well driller).

Refer to Hendrickson Technical Publication 17730-244 for complete maintenance, service instructions and safety information regarding the HAULMAAX rear suspension, available online at www.hendrickson-intl.com.

ORIGINAL PARTS \ ORIGINAL FIT \ ORIGINAL PERFORMANCE

*Call Hendrickson at **1.866.755.5968** (toll-free) or **1.630.910.2800** for additional information.*

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