

# Product Information



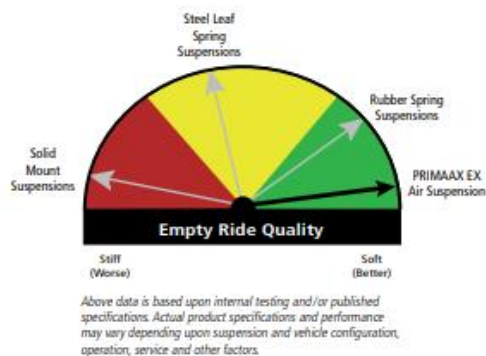
## 186-2506 Hendrickson PAX 46K Rear Air Suspension (186106)

**Affects:** All Models  
**Related:** Rear Axle (268), Rear Wheels (346)  
**Updated:** July 11, 2018



With its rugged, weight efficient design, PRIMAAX® EX is a severe-duty vocational air suspension that delivers advanced suspension technology for the rigorous demands of vocational, severe-service, and heavy-haul applications. The system features a robust structural design with optimized suspension geometry for exceptional stability, handling and ride. Suspension-induced driveline vibration is significantly reduced with PRIMAAX EX compared to competitive trailing-arm air suspensions, resulting in higher driver comfort and less premature wear on expensive truck and body equipment.

### MAAXimize Driver Vehicle Protection



Drivers, cargo and vehicles are major investments that require protection. PRIMAAX® EX adjusts to variations in load and road conditions for optimal ride and performance. The high flow height control valve maintains constant ride height in empty and loaded conditions.



# Product Information



## 186-2506 Hendrickson PAX 46K Rear Air Suspension (186106)

**Affects:** All Models

**Related:** Rear Axle (268), Rear Wheels (346)

**Updated:** July 11, 2018

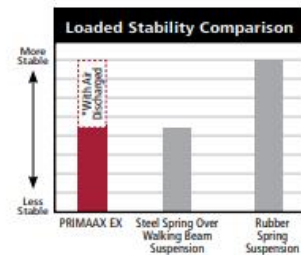
### MAAXimize Stability and Handling

Cast structural beams form a solid connection with the square cross brace to form a rigid torsion and stabilizer system **without the need for re-torque**. This low-maintenance design delivers greater stability for improved control on and off the job site. Exhausting the air springs provides a further increase in stability during job site operation.



Stabilizer System

PRIMAAX EX has better handling characteristics to improve road feel. The unique torque rod configuration contributes to more than twice the roll stability versus competitive air suspensions, along with improved handling. Roll steer is reduced to provide greater control during lane changes, highway ramp operation and tight or twisting road maneuvers.



\* Air exhausted from suspension system to provide additional stability when dumping or in stationary events where there is a high center of gravity or uneven terrain.

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

### MAAXimize Off-Road Mobility

PRIMAAX EX produces up to 12.5 inches of diagonal wheel articulation and 8 inches of vertical axle travel for improved traction. 10.75 inches of ground clearance provide the ability to traverse uneven terrain on more demanding job sites.<sup>1,2</sup>



1. Axle travel may be limited by vehicle manufacturer; axle stop settings may restrict suspension's articulation.
2. Ground clearance was measured using properly inflated 11R 22.5 tires

# Product Information



## 186-2506 Hendrickson PAX 46K Rear Air Suspension (186106)

**Affects:** All Models

**Related:** Rear Axle (268), Rear Wheels (346)

**Updated:** July 11, 2018

### MAAXimize Driver Comfort and Confidence

- **Unique suspension geometry** – Optimized configuration significantly controls suspension windup and corresponding frame rise, while increasing roll stiffness and reducing roll steer



QUICK-ALIGN® — Rotating the eccentric collar allows up to 1 inch of axle alignment per side

- **Easy axle alignment** – Hendrickson's proven QUICK-ALIGN® axle alignment system helps save time and money — offers a fast method to ensure proper alignment for improved tire life



Optimized geometry design

- **D-pin axle connection and clamp group** – Reduces stress input to the axle housing by transferring the torsional loads to the integrated stabilizer system, which helps extend axle and joint service life

- **Large volume air springs** – Reduce noise, vibration and harshness to cab, chassis and body equipment for reduced total vehicle maintenance; new integrated pistons and spacers provide a more robust beam connection while lifting and supporting the load with less air pressure

- **Alternative torque rods** – Now available to broaden packaging compatibility with disc brakes

- **Frame hanger** – New, more robust design to meet a variety of grueling vocational and severe-duty applications



Air disc brake configuration



No tie-torque required

- **Structural beam end joint** – Maintenance-free connection with cross brace reduces downtime for improved productivity

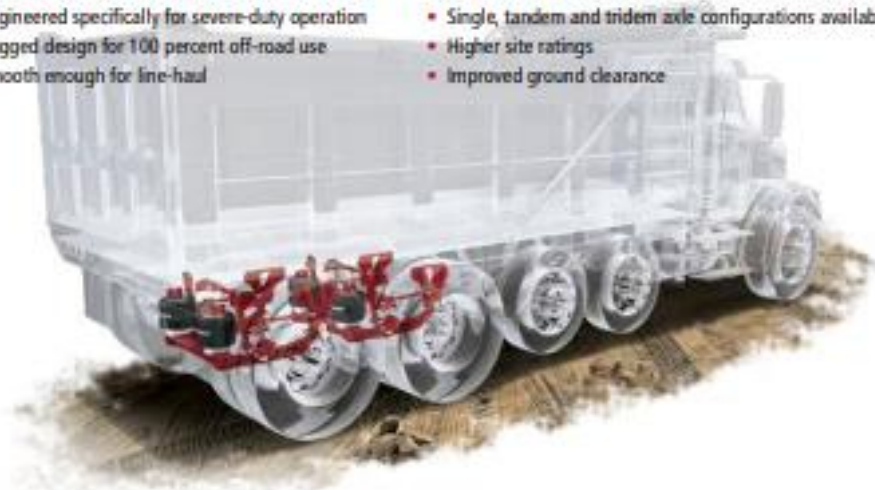
- **Cast structural beam** – Redesigned beams utilize premium materials to improve durability more than 350 percent\*

\* Based on lab testing

### MAAXimize Versatility

#### PRIMAAX® EX is approved for a wide array of applications

- Engineered specifically for severe-duty operation
- Rugged design for 100 percent off-road use
- Smooth enough for line-haul
- Single, tandem and tridem axle configurations available
- Higher site ratings
- Improved ground clearance



# Product Information



## 186-2506 Hendrickson PAX 46K Rear Air Suspension (186106)

**Affects:** All Models

**Related:** Rear Axle (268), Rear Wheels (346)

**Updated:** July 11, 2018

### PRIMAAX® EX Specifications

	PAX 232	PAX 262	PAX 462	PAX 522	PAX 692	PAX 782
Capacity	23,000 lbs.	26,000 lbs.	46,000 lbs.	52,000 lbs.	69,000 lbs.	78,000 lbs.
Installed Weight <sup>1</sup>	542 lbs.	651 lbs.	1,078 lbs.	1,282 lbs.	1,629 lbs.	1,931 lbs.
Axle Configuration	Single	Single	Tandem	Tandem	Tandem	Tandem
GVW Approval <sup>2</sup>	95,000 lbs.	142,000 lbs.	190,000 lbs.	245,000 lbs.	See Axle Manufacturer Recommendation	See Axle Manufacturer Recommendation
Site Travel Rating <sup>3</sup>	30,000 lbs.	33,000 lbs.	60,000 lbs.	66,000 lbs.	90,000 lbs.	90,000 lbs.
Axle Travel <sup>4</sup>	8 in.	8 in.	8 in.	8 in.	8 in.	8 in.
Ground Clearance	10.75 in.	10.5 in.	10.75 in.	10.5 in.	10.75 in.	10.5 in.
Lift Axles	Approved	Approved	Approved	Approved	Approved	Approved
Ride Heights <sup>5</sup>	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.	8.5 - 10.5 in. 12.5 - 15.5 in.
Axle Spacing	N/A	N/A	52 to 72.5 in.	54 to 72.5 in.	52 to 60 in.	54 to 60 in.

PRIMAAX® EX is approved for vocational and heavy-haul vehicle applications including, but not limited to: truck, tractor, dump, front and rear discharge mixer, logging, crane mounted, platform, fire / rescue, specialty and vehicles equipped with outriggers. All applications must comply with applicable Hendrickson specifications and must also be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson and the respective vehicle manufacturer for approval of additional applications.

For additional details regarding specifications, applications, capacities, operating, service and maintenance instructions, refer to applicable Hendrickson technical literature (available at [www.hendrickson-intl.com](http://www.hendrickson-intl.com)) or contact Hendrickson at 800-910-2800.

1. Installed weight includes complete suspension, torque rods, axle and frame brackets and all hardware. Published weight is for standard PRIMAAX EX suspension using 10-inch ride height. Other configurations may change weight.
2. Contact Hendrickson for applications that may exceed GVW approval ratings.
3. Site travel rating — operators using vehicles equipped with liftable pusher or tag axles must not exceed published ratings. Ratings are limited to no more than five percent of vehicle operation at speed not to exceed five mph. Liftable pusher or tag axles should only be raised (or unloaded) to improve vehicle maneuverability in off-road use or when vehicle is empty. Site travel ratings are consistent with published axle manufacturer's limitations. Axle and suspension site travel specifications must not be exceeded.
4. Suspension articulation may exceed vehicle's capability and may be limited by vehicle manufacturer; vehicle manufacturer installed axle stops may restrict suspension's articulation.
5. Contact Hendrickson for availability of beam lengths.

U.S. and foreign patents granted and / or pending.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors. Ride performance can be subjective and may be dependent on many factors beyond the suspension design such as cab suspension, road conditions, body/auxiliary equipment, frame specifications, etc. Contact Hendrickson or your truck manufacturer/dealer for further information.

**Hendrickson Genuine Parts** are the same quality components installed in Hendrickson original equipment suspensions — consisting of the same design, construction, performance and durability. There's only one way to maintain and protect your suspension's original performance. Ask for the name that is synonymous with the finest manufactured suspensions in the world.