

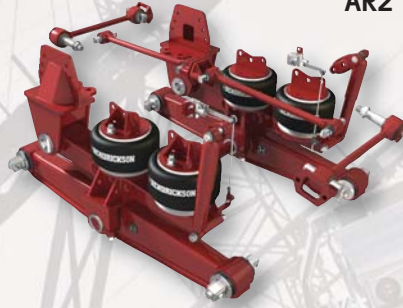
# **H** SUSPENSION CONVERSIONS

Truck Suspension Systems

HAULMAAX®



AR2™



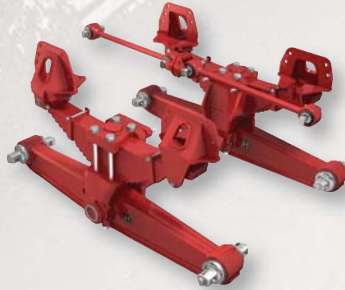
HN®



PRIMAAX® EX



RT™ / RTE™



HAS™



COMFORT AIR®



Contact Hendrickson toll-free at 1-866-755-5968

**H** GENUINE PARTS

[www.hendrickson-initl.com](http://www.hendrickson-initl.com)



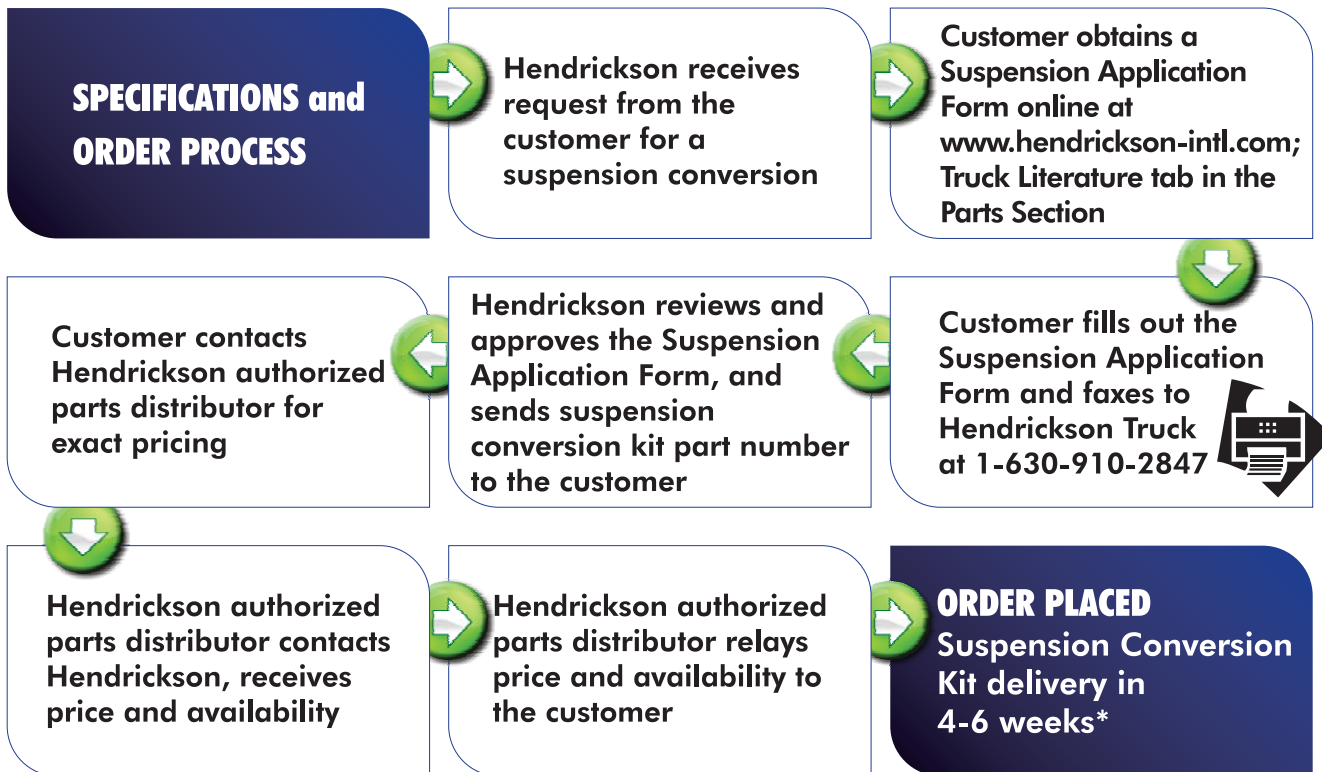
**H** HENDRICKSON  
*The World Rides On Us®*



**HENDRICKSON** — the leader in suspension technology and the experts in walking beam suspensions offers conversion kits that deliver reliability and quality through innovative design and advanced manufacturing methods.

## SUSPENSION CONVERSION PROCESS

Hendrickson can aid you in the selection of a rear suspension kit to meet your vehicle requirements. Suspension conversions, glider kit installations, and custom truck applications are made simple with Hendrickson's suspension conversion kits.



\* Rush delivery – if available, may be subject to additional charges for special services, which include, but not limited to, expedited delivery and additional freight costs. Please contact Hendrickson for more details on these services.

- AMBULANCE
- BUS
- CITY DELIVERY
- COMMERCIAL BUS
- CONSTRUCTION
- CRANE / BOOM
- DRY FREIGHT
- DUMP
- FIRE / RESCUE
- HEAVY HAUL LOGGING
- MINING
- OIL FIELD
- REFUSE
  - FRONT
  - REAR
  - SIDE LOADER
- RV
- SNOWPLOW
- TANKER
- TRANSMIT MIX
- CUSTOM



Call toll-free 1-866-755-5968 or visit [www.hendrickson-intl.com](http://www.hendrickson-intl.com) for more information

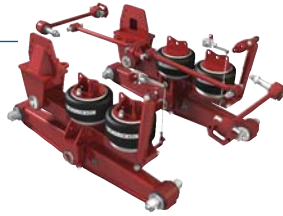


# Rear Suspension Selection Guide

## AIR SUSPENSIONS

### AR2™

- Applications include dump, (no lift axles) crane / boom and platform
- Converts most RT™/RTE™ steel spring suspensions to an air suspension
- Better ride, longer component life, reduced weight, and improved durability
- High articulation capabilities for on and off road applications
- Capacities of 40,000 and 46,000 pounds



### PRIMAAX® EX

#### Revolutionary vocational suspension

- Ideal for construction, logging, refuse, mixer, crane, and heavy-haul applications
- Optimized configuration helps improve handling and roll stiffness for expanded applications
- Axle connection and torque rods help reduce torsional axle stress and driveline vibration
- Large-volume, low frequency air springs provide a smooth ride for on and off road uses
- Up to 12.5 inch of diagonal wheel articulation for superior mobility
- Capacities of 23,000 and 26,000 pounds (single), 46,000 and 52,000 pounds (tandem), 69,000 and 78,000 pounds (tridem)



### COMFORT AIR®

#### Single axle suspension designed for passenger and driver comfort

- Designed for buses, motor homes, ambulances and medium-duty truck applications.
- Wide footprint of frame hanger reduces stress to the frame
- Suspension geometry improves ride and handling
- QUIK-ALIGN® simplifies axle alignment
- Capacities of 15,000 to 23,000 pounds



### HAS™

- Suited for both on- and off-highway applications
- Approved for up to 25 percent off-highway use
- Excellent ride quality
- Approved for use with lift axles
- Optional inboard shocks available
- Capacities of 12,000 and 23,000 pounds (single), 40,000 and 46,000 pounds (tandem)



## WALKING BEAM SUSPENSIONS

### Includes the following:

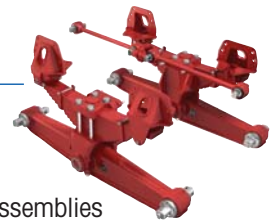
- Equalizing beams at standard axle spacing lengths as supplied to the vehicle manufacturer
- Standard frame mounting brackets as supplied to the vehicle manufacturer
- If applicable, ULTRA ROD® / ULTRA ROD® PLUS™ transverse torque rods with frame brackets

**Not included** – Axle beam hangers and torque rod axle brackets (supplied by the respective manufacturer)

### RT™/RTE™ SERIES

#### Double steel leaf spring suspension

- Well suited for dump, refuse, mixer and military applications
- RT Series engineered with low maintenance bushings and spring assemblies
- RTE Series features extended leaf spring for improved unloaded ride and loaded stability
- RT capacities up to 65,000 pounds and RTE capacities up to 50,000 pounds



### HAULMAAX®

#### Heavy-duty rubber suspension

- Recommended for construction, refuse, mixer, and logging applications
- Lightweight vocational tandem suspension
- Reduces maintenance with fewer bushings and no lubrication requirements
- VARIRATE® spring system provides superior combination of empty ride and loaded stability
- Up to 17 inch of diagonal articulation for greater off-road mobility
- Capacities of 40,000 and 46,000 pounds



### HN® SERIES

#### Heavy-duty rubber suspension

- Recommended for construction, refuse, mixer and logging applications
- VARIRATE system results in excellent loaded stability and unloaded ride quality
- Up to 17 inch of diagonal articulation contributes to outstanding traction
- Reduced maintenance with fewer bushings and no lubrication requirements
- Capacities of 40,000, 46,000 and 52,000 pounds



## SUSPENSION PERFORMANCE RATING\*

	AR2	COMFORT AIR	HAS	PRIMAAX EX	HAULMAAX	HN	RT	RTE
Ride Quality— Loaded	9	10	10	10	8	8	7	7
Ride Quality—Unloaded	9	10	10	10	8	8	5	7
Mobility/Articulation	9	6	5	8	10	10	9	9
Stability Off-Highway	5	6	6	8	9	9	7	7
Durability	8	5	5	9	9	9	10	10

### RATING SCALE

**Ride Quality** — describes how well the suspension absorbs road shock as the truck encounters bumps, potholes, and other road irregularities.

- 9-10** Minimal bounce, fore/aft, and lateral movement
- 7-8** Some bounce, fore/aft, and lateral movement
- 4-6** Considerable bounce, fore/aft, and lateral movement

**Mobility/Articulation** — describes how well the suspension provides traction and maneuverability, especially the ability to maneuver over obstacles and avoid getting stuck.

- 9-10** Loaded cross articulation is greater than 12"
- 7-8** Loaded cross articulation is 8"-12"
- 5** Loaded cross articulation is 7"

**Stability Off-Highway** — describes how well the suspension resists vehicle leaning in lower speed operations on job sites, particularly during loading and unloading.

- 9-10** Comfortable to maneuver across most grades on typical job sites
- 7-8** Comfortable to maneuver across moderate grades on typical job sites
- 5-6** Comfortable to maneuver across level ground and shallow grade

**Durability** — describes the ability of a suspension to withstand rigorous operation over the life of the vehicle.

- 9-10** Designed for more than 50% off-highway operation fully loaded
- 7-8** Designed for 30-50% off-highway operation fully loaded
- 4-6** Designed for 15-30% off-highway operation

\* These ratings are intended for reference and comparison purposes only, and are not based on actual measurements. Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

## AR2, RT/RTE – HENDRICKSON CENTER BUSHING GUIDELINES



The use of rubber or bronze center bushings is dependent on a variety of factors dictated by the operating conditions and geographic location of the vehicle. These factors can best be determined by the prior experience of the operator. Our general guidelines are to be used for 34,000 to 52,000 pounds capacity suspension applications in which such prior operator experience is limited.

CAPACITY		ON-HIGHWAY	LOGGER	DUMP	TRANSIT MIXER	REFUSE PACKER	OFF-HIGHWAY
34,000 lbs.	Standard	A	A	A	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>
	Optional	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>
40,000 lbs.	Standard	B	B	B	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>
	Optional	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>
46,000–52,000 lbs.	Standard	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>	D <sup>2</sup>
	Optional	C <sup>1</sup>	C <sup>1</sup>	C <sup>1</sup>	C <sup>1</sup>		

- A 34,000 pounds: Rubber Center Bushing Part No. 06664-000** — This standard 34K bushing offered by Hendrickson is most economical bushing, requires no maintenance and provides satisfactory life for a variety of applications.
- B 40,000 pounds: Rubber Center Bushing Part No. 49400-000** — This standard 40K High Confinement Bushing offered by Hendrickson, requires no maintenance and provides excellent service life for a variety of applications.
- C 46,000-52,000 pounds: Rubber Center Bushing Part No. 29483-005** — This bushing is designed specifically to stand up to higher capacities and severe service applications. This bushing requires the use of transverse rods.
- D 34,000-52,000 pounds: Bronze Center Bushings** — It is primarily used in the most severe applications, such as high-capacity suspensions that encounter extremely tight turns under heavy loads. Not to be used with transverse torque rods.

- 1 Transverse rods are mandatory with this option.
- 2 Does not use transverse rods.

www.hendrickson-intl.com



Truck Systems Group  
800 South Frontage Road  
Woodridge, IL 60517-4904 USA

630.910.2800  
Fax 630.910.2899