

Vendor:

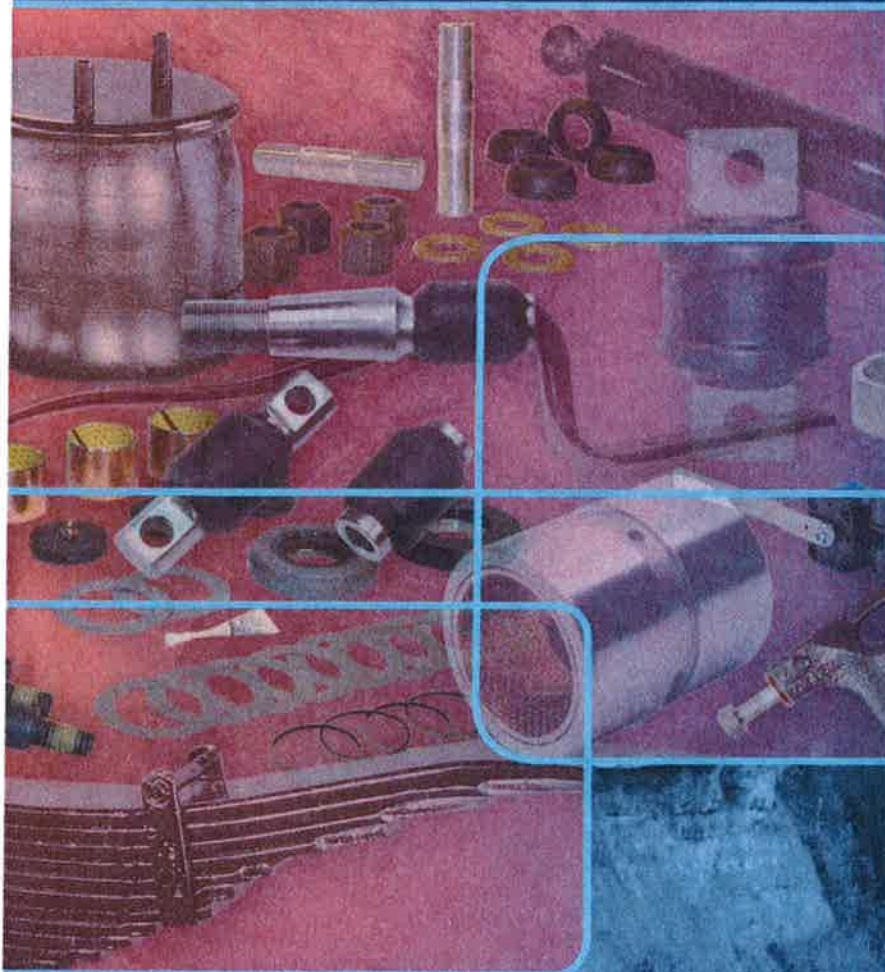
Hendrickson Truck Suspension

Vendor Information	Hendrickson is a leading global manufacturer of and supplier of heavy duty mechanical, elastomeric and air suspensions; integrated and non-integrated axel systems; and parabolic and multi-leaf springs to the global commercial transportation market. Hino Parts Support Phone: 866-372-4466 Hino Parts Support Email: helpdesk@hino.com Hino Parts Support Fax: 662-342-3939 Hendrickson Customer Service Phone: 260-349-6424 Hendrickson Tech Service: 630-910-2800 Hendrickson Unit Down Phone: 800-257-1103 Hendrickson Email: lprough@hendrickson-intl.com; brozewicz@hendrickson-intl.com Hendrickson Web: http://www.hendrickson-intl.com/ Hendrickson Fax: 260-347-2711
Customer Service & Technical Support	
Order Procedures:	All orders are to be placed through the Hino Dealer Connect System (DCS). For special orders or for customer support contact Vendor directly via phone number. Stock Orders Enter orders in DCS Screen DC202 under Sales Type "S". All direct ship items will be shipped from a local Vendor PDC. Emergency Orders Emergency orders may be entered into DCS screen DC202 as a Sales Type "E" or "V". All emergency orders will be processed with a "rush" order. Freight and Handling fees will be identified on the Hino invoice. Emergency orders will have a lead-time of 24-48 hours depending on product type. Minimum Order Quantity Please see Hino DCS for any specific item based minimum order quantity. There is no program based minimum order requirement on orders.
Freight Policy:	Shipments within the Continental United States are shipped FOB their dock for all orders. All orders are shipped from 101 South Progress Drive West, Kendallville, Indiana 46755-3262 unless otherwise specified. All orders will be shipped via the most efficient method.
Free Freight Policy:	All direct shipped orders will include FOB, freight prepaid from their Kendallville, IN location. Hino Trucks covers the freight on stock orders.
Order Fulfillment Policy:	Stock orders have a standard 4-6 week lead-time, direct ship is 1-2 weeks, and critical orders placed before 2:00 PM EST will ship next-day. All lead-times are subject to material availability and man change at any time. Hendrickson has a commitment to provide all parts when requested and focuses strongly for on-time delivery.
Part Number Pricing:	Hendrickson pricing is available on-line in the Hino DCS system.
Part Format:	Standard Part numbers are directly carried over; no dashes, no prefix or no suffix.
Mega Fleet:	All-Makes parts are not included in the Hino Mega Fleet pricing file but should be sold to Mega Fleet customers and filed as Miscellaneous Items in Corcentric when submitting for reimbursement.
Warranty:	Please always view Suppliers warranty documents as warranty varies based on items/products/vehicle applications, etc... Contact vendor directly. Hendrickson offers a 1 year warranty on all non-installed service parts. This covers manufacturer defects only and does not cover damage caused during installation. Please view Vendor warranty documents as warranty varies based on item. Contact vendor directly for a RGA approval number. Warranty covers manufacturers defects only and does not cover damage (installation or progressive). If the vendor provides a RGA number, contact Hino Trucks warranty department. Warranty claims are to be sent back through Hino Trucks corporate. Contact vendor directly to obtain a Return Goods Authorization code by phone number or email address listed above. All returned items MUST have prior approval and the Return Goods Authorization (RGA) marked on the outside of the box. RGAs have an expiration date of sixty (60) days; after sixty (60) days the return will become null and void. All returns are subject to a 25% or greater restocking fee. Will not authorize any returns that are not properly packaged or in the original packaging. No credit will be issued for product that has been damaged, altered, or installed on equipment. The customer is responsible for all freight charges on the returned merchandise. Special order items or non stock items are not returnable.
Returns:	
Shipping Inspection and Damaged Product:	All merchandise should be inspected upon arrival and carrier damage claims should be filed with the carrier immediately. Contact the Hino PDC for any damaged product or shipping issues. For excess stock returns, contact the Vendor directly.
Vendor Cross Reference Web Site:	http://www.hendrickson-intl.com/aftermarket/
Conclusion:	Hendrickson is the premium suspension leader both in quality and innovation and can be found worldwide on a variety of truck brands and applications. Selling and installing only genuine parts allows you to make sure your customer expectations are exceeded. Hendrickson genuine parts come with the technical expertise to help you get the most out of each service job. Service instructions, part lists, and technical help can all be accessed either by calling Hendrickson direct, or reviewing the literature section on the website, www.hendrickson-intl.com. Grow your business by partnering with an industry leader today!



Popular Kits and Parts Catalog

Truck
Suspension
Systems



HENDRICKSON
The World Rides On Us

Truck Ride Solutions

REAR AIR SUSPENSIONS



PRIMAAX® EX



COMFORT AIR®



HTB™



AR2™



HAS™



PARASTEER™

WALKING BEAM SUSPENSIONS



HAULMAAX®



HN®



RT™/RTE™

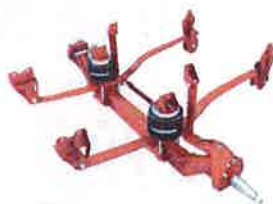


RS™



R™

FRONT STEER AXLE SYSTEMS



AIRTEK®



SOFTEK®



STEERTEK



IFS

OTHER SUSPENSIONS



HTB™ M



HFS



Aftermarket assistance toll-free **1.866.755.5968**



GENUINE PARTS

There's only one sure way to protect the life of your Hendrickson suspension system. Order genuine Hendrickson suspension parts and service kits. Hendrickson Service Kits contain the proper Hendrickson parts needed to complete a job — right down to fasteners, washers and easy-to-follow instructions, all in one handy box.

Hendrickson Service Kits make your job easier. They simplify inventory control, take up less space, keep you organized, and cut waste — all to save you money.

What's more, they ensure that your getting 100% genuine Hendrickson parts.

Complete Hendrickson Service Kits are available for beam and adapter assemblies, bronze center and beam end bushings, QUIK-ALIGN® components, height control valves and many other common suspension repairs. Browse the Hendrickson Popular Kits and Parts Catalog to find the correct kit for the job, then order them through your traditional parts sources.

Remember... Hendrickson parts last longer to help keep your customers on the road longer.

WHY GENUINE?

Original Parts, Original Fit, Original Performance — That's why.

This catalog is only a portion of all the parts available from Hendrickson. Other service kits are available if desired. Popular parts and service kits may vary upon the geographical area. All Hendrickson parts are available through traditional part sources including those not listed in this catalog. See our website for more information.

www.hendrickson-intl.com



For more information on Hendrickson products, visit our website at www.hendrickson-intl.com.

For Aftermarket part assistance, contact us by phone 1.866.755.5968 or email us at truckparts@hendrickson-intl.com.

Tie Rod End Kits – Axle Set¹ AIRTEK/SOFTEK/STEERTEK



60961-010

Straight Tie Rods – 69 KPI, 4.25" Drop

Axle Set		Qty.
64000-001	LH Tie Rod End	1
64000-002	RH Tie Rod End	1
22962-007	7/8" Hardened Washer	2
17800-004	Cotter Pin	2

60961-011

Straight Tie Rods – 70.9 KPI, 4.25" Drop

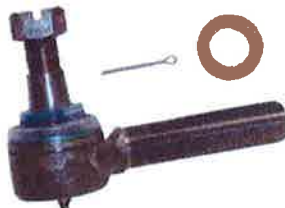
Axle Set		Qty.
64002-001	LH Tie Rod End	1
64002-002	RH Tie Rod End	1
22962-007	7/8" Hardened Washer	2
17800-004	Cotter Pin	2

60961-082

Straight Tie Rods – 70.9 KPI, 4.25" Drop

Axle Set		Qty.
65034-001	LH Tie Rod End	1
65034-002	RH Tie Rod End	1
22962-007	7/8" Hardened Washer	2
17800-004	Cotter Pin	2

Tie Rod End Kits – One Side¹ AIRTEK/SOFTEK/STEERTEK



60961-085

Straight Tie Rods – 70.9 KPI, 4.25" Drop

Left Hand		Qty.
65034-001	Tie Rod End	1
22962-007	7/8" Hardened Washer	1
17800-004	Cotter Pin	1

60961-086

Straight Tie Rods – 70.9 KPI, 4.25" Drop

Right Hand		Qty.
65034-002	Tie Rod End	1
22962-007	7/8" Hardened Washer	1
17800-004	Cotter Pin	1

Tie Rod End Kits – One Side¹ AIRTEK/SOFTEK/STEERTEK



60961-137

Drop Tie Rods – 69/70.9 KPI, 5.36" Drop

Left Hand		Qty.
66645-001	Tie Rod End	1
22962-007	7/8" Hardened Washer	1
17800-004	Cotter Pin	1

60961-138

Drop Tie Rods – 69/70.9 KPI, 5.36" Drop

Right Hand		Qty.
66645-002	Tie Rod End	1
22962-007	7/8" Hardened Washer	1
17800-004	Cotter Pin	1

60961-189

Drop Tie Rods – 69/70.9 KPI, 5.36" Drop

Axle Set		Qty.
60961-137	Left Hand Kit	1
60961-138	Right Hand Kit	1

¹ See Hendrickson Literature No. SEU-0223 for more information on tie rod ends.

Thrust Bearing Service Kits AIRTEK/SOFTEK/STEERTEK/IFS



60961-041

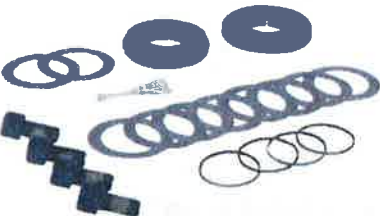
One Wheel End – LH

		Qty.
59828-000	Composite Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	2
58910-000	Kingpin Seal	2
60259-001	Kingpin Shim 0.005"	4
60259-002	Kingpin Shim 0.047"	1
60937-000	Loctite Tube	1

60961-042

One Wheel End – RH

		Qty.
64256-000	Roller Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	2
58910-000	Kingpin Seal	2
60259-001	Kingpin Shim 0.005"	4
60259-002	Kingpin Shim 0.047"	1
60937-000	Loctite Tube	1



60961-043

Axle Set

		Qty.
59828-000	Composite Thrust Bearing	1
64256-000	Roller Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	4
58910-000	Kingpin Seal	4
60259-001	Kingpin Shim 0.005"	8
60259-002	Kingpin Shim 0.047"	2
60937-000	Loctite Tube	1

Steering Knuckle Service Kits AIRTEK/SOFTEK/STEERTEK/IFS



Kit Shown: 60961-009

60961-009

One Wheel End – LH

		Qty.
59156-000	Grease Cap Assembly	2
58937-000	Retaining Ring	2
58909-000	Kingpin Bushing	2
59828-000	Composite Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	2
58910-000	Kingpin Seal	2
60259-001	Kingpin Shim 0.005"	4
60259-002	Kingpin Shim 0.047"	1
60937-000	Loctite Tube	1

60961-039

One Wheel End – RH

		Qty.
59156-000	Grease Cap Assembly	2
58937-000	Retaining Ring	2
58909-000	Kingpin Bushing	2
64256-000	Roller Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	2
58910-000	Kingpin Seal	2
60259-001	Kingpin Shim 0.005"	4
60259-002	Kingpin Shim 0.047"	1
60937-000	Loctite Tube	1

Steering Knuckle Service Kits AIRTEK/SOFTEK/STEERTEK/IFS



60961-040

Axle Set

		Qty.
59156-000	Grease Cap Assembly	4
58937-000	Retaining Ring	4
58909-000	Kingpin Bushing	4
59828-000	Composite Thrust Bearing	1
64256-000	Roller Thrust Bearing	1
60236-001	5/8"-11 UNC Socket Head Cap Screw	4
58910-000	Kingpin Seal	4
60259-001	Kingpin Shim 0.005"	8
60259-002	Kingpin Shim 0.047"	2
60937-000	Loctite Tube	1

Popular Kits

Front Steer Axle Systems



Rear Air Suspensions

Popular Kits

Rear Suspensions

Height Control Valve Kits PRIMAAX/HAS/PARASTEER AR2/COMFORT AIR



Kit Shown: 57977-000

57977-000

One Side

	Qty.
HCV Integrated Dump Valve	1
HCV Mounting Bracket	1
1/4" Hardened Washer	2
1/4"-20 UNC Locknut	2

59013-000

One Side

	Qty.
Height Control Valve	1
1/4" Hardened Washer	2
1/4"-20 UNC Locknut	2

58525-001

One Side

	Qty.
Height Control Valve	1
HCV Linkage Assembly - 16.54"	1



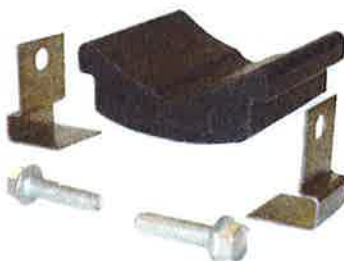
60826-000

One Side

	Qty.
Height Control Valve	1
HCV Mounting Bracket	1
1/4" Flat Washer	2
1/4"-20 UNC Locknut	2
Locating Pin	

NOTE: Universal valve replaces both the 50433-001 and 50433-002.

Slipper Pad Kits HA/HAS Series



Kit Shown: 56557-004

56557-001

One Hanger

	HA	Qty.
56908-000	HA Slipper Pad	1
50597-000	HAS Retainer Plate	2
57306-000	3/8" Rolok Screw - 1.5"	4

56557-002

One Hanger

	HA/HAS	Qty.
50612-000	HAS Slipper Pad	1
50597-000	HAS Retainer Plate	2
57306-000	3/8" Rolok Screw - 1.5"	4

56557-004

One Hanger

	HAS	Qty.
56929-000	HAS Slipper Pad	1
57566-000	HAS Retainer Clip	2
57306-000	3/8" Rolok Screw - 1.5"	2

56557-005

One Hanger

	HAS	Qty.
56929-000	HAS Slipper Pad	1
58287-001	Slipper Pad Lock Pin - 1"	2

ULTRA ROD® Two-Piece Torque Rod Kits



60218-000

66610-000	Tube End, 5/8" Hole Dia.	1
	47691-000H Bushing	
66661-000	Spacer End, 5/8" Hole Dia.	1
	47691-000H Bushing	

60215-000

66610-000	Tube End, 5/8" Hole Dia.	1
	47691-000H Bushing	
66681-000	3" Taper End	1
	64697-000H Bushing	

60223-000

66610-000	Tube End, 5/8" Hole Dia.	1
	47691-000H Bushing	
66660-000	Spacer End, 5/8" Hole Dia.	1
	47691-000H Bushing	

60220-000

66610-000	Tube End, 5/8" Hole Dia.	1
	47691-000H Bushing	
66691-000	1 7/8" Taper End	1
	66735-000H Bushing	

ULTRA ROD® PLUS™ Bushing and Funnel Kit



34013-113

64400-002L	Torque Rod Bonded Bushing – 5/8" Hole Dia.	8
66086-000	Bushing Funnel Tool	1

QUIK-ALIGN® Collar Kits



60632-013

Axle Set

		Qty.
64632-000	Eccentric Collar	1
64633-000	Concentric Collar	3
64107-000	1"-8 UNC Bolt – 7.5"	2
22962-035	1" Hardened Washer	4
64108-000	1"-8 UNC Locknut	2

COMFORT AIR



Kit Shown: 60632-006

60632-006 PRIMAAX EX/FIREMAAX EX PRIMAAX/FIREMAAX

One Wheel End

		Qty.
64632-000	Eccentric Collar	1
64633-000	Concentric Collar	1
68217-000	1"-8 UNC Bolt – 7.5"	1
68232-000	1" Hardened Washer	2
68218-000	1"-8 UNC Locknut	1

60632-012 PRIMAAX EX/FIREMAAX EX PRIMAAX/FIREMAAX

Axle Set

		Qty.
64632-000	Eccentric Collar	2
64633-000	Concentric Collar	2
68217-000	1"-8 UNC Bolt – 7.5"	2
68232-000	1" Hardened Washer	4
68218-000	1"-8 UNC Locknut	2

QUIK-ALIGN Pivot Bushing Kits



Kit Shown: 60632-008

60632-008 PRIMAAX EX/FIREMAAX EX PRIMAAX/FIREMAAX

Axle Set

		Qty.
64632-000	Eccentric Collar	2
64633-000	Concentric Collar	2
68217-000	1"-8 UNC Bolt – 7.5"	2
68232-000	1" Hardened Washer	4
68218-000	1"-8 UNC Locknut	2
58648-000	Pivot Bushing	2

60683-001

AL405/MAXAIR

Tandem Set

		Qty.
60496-000	Eccentric Collar	2
60497-000	Concentric Collar	6
58705-003	7/8"-8 UNC Bolt – 7.5"	4
22962-034	7/8" Hardened Washer	8
60266-000	7/8"-8 UNC Locknut	4
58648-000	Pivot Bushing	4

QUIK-ALIGN Pivot Bolt Kit

60632-005 PRIMAAX EX/FIREMAAX EX PRIMAAX/FIREMAAX

One Wheel End

		Qty.
68217-000	1"-8 UNC Bolt – 7.5"	1
68232-000	1" Hardened Washer	2
68218-000	1"-8 UNC Locknut	1

Pivot Bushing Kit



34013-103

One Wheel End

		Qty.
64107-000	1"-8 UNC Bolt – 7.5"	1
22962-035	1" Hardened Washer	2
64108-000	1"-8 UNC Locknut	1
58648-000	Pivot Bushing	1
64817-000	Plastic Isolator Puck	2

COMFORT AIR²

Popular Kits

Rear Air Suspensions



Walking Beam Suspensions

Bronze Center Bushing Kits 340-520 Series³



Kit Shown: 30437-000L

30436-000L 340 Series Two Beams Qty.

30240-001	Bronze Center Bushing	2
14684-000	Beam Center Sleeve	2
30333-000	Beam Center Seal	4
32364-000	Thrust Washer	8
30087-000	Grease Fitting	2

34013-053 340 Series One Beam Qty.

30240-001	Bronze Center Bushing	1
14684-000	Beam Center Sleeve	1
30333-000	Beam Center Seal	2
32364-000	Thrust Washer	4
30087-000	Grease Fitting	2

30437-000L 380-520 Series Two Beams Qty.

30240-002	Bronze Center Bushing	2
14685-000	Beam Center Sleeve	2
30334-000	Beam Center Seal	4
32365-000	Thrust Washer	8
33117-000	Grease Fitting	2

34013-054L 380-520 Series One Beam Qty.

30240-002	Bronze Center Bushing	1
14685-000	Beam Center Sleeve	1
30334-000	Beam Center Seal	2
32365-000	Thrust Washer	4
33117-000	Grease Fitting	1

Bronze Center Bushing Kits 650 Series³



Kit Shown: 45374-000L

45374-000 650 Series Two Beams Qty.

30240-005	Bronze Center Bushing	2
25102-000	Beam Center Sleeve	2
31577-000	Beam Center Seal	4
45261-000	Thrust Washer	4
30087-000	Grease Fitting	2

34013-055L 650 Series One Beam Qty.

30240-005	Bronze Center Bushing	1
25102-000	Beam Center Sleeve	1
31577-000	Beam Center Seal	2
45261-000	Thrust Washer	2
30087-000	Grease Fitting	1

Bronze Center Bushing Kits T Series – Hollow Sleeve³



Kit Shown: 34013-076

34013-076 T 380 Series One Beam Qty.

• 3½" I.D. Bushing ¼" Lip		
02335-000	Bronze Center Bushing	2
02339-000	Beam Center Sleeve	1
02336-000	Thrust Washer	2

34013-077 T 440 Series One Beam Qty.

• 3½" I.D. Bushing ⅛" Lip		
09121-000	Bronze Center Bushing	2
02339-000	Beam Center Sleeve	1
02336-000	Thrust Washer	2

34013-079 T 600 Series One Beam Qty.

• 4" I.D. Bushing ¼" Lip		
03415-000	Bronze Center Bushing	2
03418-000	Beam Center Sleeve	1
03416-000	Thrust Washer	2

34013-081 T 900 Series One Beam Qty.

• 4" I.D. Bushing ⅛" Lip		
08904-000	Bronze Center Bushing	2
03418-000	Beam Center Sleeve	1
03416-000	Thrust Washer	2

Bronze Center Bushing Kits T Series – Solid Sleeve³



Kit Shown: 34013-078

34013-078 T 600 Series One Beam Qty.

• 4" I.D. Bushing ¼" Lip		
03415-000	Bronze Center Bushing	2
10358-000	Beam Center Pin	1
03416-000	Thrust Washer	2

34013-080 T 900 Series One Beam Qty.

• 4" I.D. Bushing ⅛" Lip		
08904-000	Bronze Center Bushing	2
10358-000	Beam Center Pin	1
03416-000	Thrust Washer	2

³ See Equalizing Beam and Components Selection Guide No. 45745-147 for more information.

Rubber End Bushing and Adapter Kits 340-520 Series³



Kit Shown: 34013-049L

34013-049L 440 Series One Wheel End Qty.

45900-000	End Bushing	1
45000-007L	End Bushing Adapter Kit	1

34013-050L 480-520 Series One Wheel End Qty.

29878-001	End Bushing	1
21140-034L	End Bushing Adapter Kit	1

34013-048L 340 Series One Wheel End Qty.

06969-000	End Bushing	1
45000-013L	End Bushing Adapter Kit	1

34013-073L 460 Series One Wheel End Qty.

45900-000	End Bushing	1
21140-034L	End Bushing Adapter Kit	1

34013-051L 520 Series One Wheel End Qty.

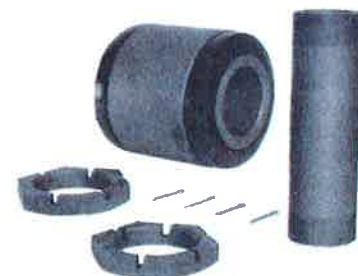
45407-000	End Bushing	1
21140-033L	End Bushing Adapter Kit	1

Rubber End Bushing and Adapter Kits 650 Series³



34013-052 650 Series One Wheel End Qty.

10363-000	End Bushing	1
21140-007	End Bushing Adapter Kit	1



34013-072 650 Series One Wheel End Qty.

10363-000	End Bushing	1
10371-000	Beam Hanger Tube Nut	2
17800-010	Cotter Pin	4
10372-000	Beam Hanger Tube	1

End Bushing Adapter Kits 340-520 Series³



Kit Shown: 45000-007L

45000-007L 440 Series One Wheel End Qty.

21867-023	3/4"-16 UNF Bolt - 6.5"	1
22962-001	3/4" Hardened Washer	2
30191-000	3/4"-16 UNF Locknut	1
45163-000	Beam End Adapter	2
45289-002	Adapter Tube	1

21140-034L 460 Series One Wheel End Qty.

30550-008	1"- Top Pad Bolt - 10.5"	1
22962-008	1" Hardened Washer	2
08017-000	1"-14 UNS Locknut	1
45871-000	Beam End Adapter	2
45289-004	Adapter Tube	1

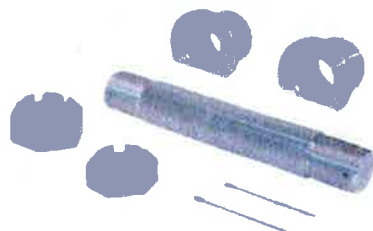
45000-013L 340 Series One Wheel End Qty.

21867-007	3/4"-16 UNF Bolt - 6.0"	1
22962-001	3/4" Hardened Washer	2
30191-000	3/4"-16 UNF Locknut	1
45163-000	Beam End Adapter	2
45289-001	Adapter Tube	1

21140-033L 520 Series One Wheel End Qty.

30550-010	1"- Top Pad Bolt - 11.0"	1
22962-000	1" Hardened Washer	2
08017-000	1"-14 UNS Locknut	1
45871-000	Beam End Adapter	2
45289-002	Adapter Tube	1

End Bushing Adapter Kits 650-850 Series³



Kit Shown: 21140-007

21140-007 650 Series One Wheel End Qty.

17491-022	1 7/8"-12 UNF Slotted Nut	2
17800-003	Cotter Pin	2
22057-000	Beam End Adapter	2
21592-003	Beam End Shaft	1

21140-004 850 Series One Wheel End Qty.

17491-022	1 7/8"-12 UNF Slotted Nut	2
17800-003	Cotter Pin	2
21592-001	Beam End Adapter	2
21593-000	Beam End Shaft	1
45456-000	Thrust Washer	1

³ See Equalizing Beam and Components Selection Guide No. 45745-147 for more information.

Walking Beam Suspensions

Bar Pin End Bushing Kits – 340-520 Series³



34013-088L

One Beam End

	Qty.
1"-8 UNC Hex Bolt – 6.0"	2
1" Hardened Washer	4
1"-8 UNC Locknut	2
Bar Pin Shim 0.25" x 0.12"	2
Bar Pin End Bushing (Shim)	1

NOTE:

- Shim **MUST** be installed when using Kit 34013-088L.



34013-087L

One Beam End

	Qty.
1"-8 UNC Hex Bolt – 6.0"	2
1" Hardened Washer	4
1"-8 UNC Locknut	2
Bar Pin End Bushing (Non Shim)	1

With Shims

Spring Mounting Kits RT/RTE Series



Kit Shown: 29828-023

29828-023

One Wheel End

	Qty.
00194-000 Rebound Bolt Spacer	1
24531-005 ½"-13 UNC Bolt – 6.5"	1
49846-000 ½"-13 UNC Locknut	1

29828-034L

Vehicle Set

	Qty.
00194-000 Rebound Bolt Spacer	2
24531-005 ½"-13 UNC Bolt – 6.5"	2
24531-009 ½"-13 UNC Bolt – 4.0"	4
22962-011 ½" Hardened Washer	8
49846-000 ½"-13 UNC Locknut	6
43146-000 Spring Hanger Pin	2
33117-000 Grease Fitting	2

29828-035L

One Wheel End

	Qty.
24531-009 ½"-13 UNC Bolt – 4.0"	2
22962-011 ½" Hardened Washer	4
49846-000 ½"-13 UNC Locknut	2

Spring Eye Drawkey Kit Single Lock Hanger



00062-001L

One Hanger

	RT/RTE Qty.
00062-000 Spring Hanger Drawkey	1
17341-000 ½" Lockwasher	1
17351-000 ½"-13 UNC Hex Nut	1

Bolster Spring Kits



Kit Shown: 64179-037

64179-037

One Set

	HAULMAAX Qty.
Tie-bar Bolster Springs	2
Bolster Spring Spacer	1
½"-13 UNC 10" Flange Bolt	1
½"-13 UNC Flange Nut	9



64179-002

One Set

	HAULMAAX Qty.
Bolster Springs	2
½"-13 UNC Flange Nut	8



60879-000L

One Set

	HN Qty.
Bolster Springs	2

³ See Equalizing Beam and Components Selection Guide No. 46745-147 for more information.

Air Springs



Part No.	Model
60716-002L	Volvo, Mack 13.2/14.6K



Part Shown: 66349-002L

Part No.	Model
59823-002L	Freightliner, Western Star, Sterling
66349-002L	Mack 12.5K

Shock Absorbers



Part Shown: 60675-003L

Part No.	Model
60675-001L	Volvo Hi-Torque
60675-002L	Western Star Hi-Torque
60675-003L	Hi-Torque



Part Shown: 58913-003L

Part No.	Model
58913-003L	AIRTEK Freightliner Western Star Sterling
64838-002L	AIRTEK Volvo 12/12.5K, 13.2/14.6K Mack 12/12.5K 13.2/14.6K

Front Leaf Springs – AIRTEK



Part Shown: 59930-021

Part No.	Model
59930-021	Freightliner
64772-000	Volvo
66420-000	International

Height Control Valves



Part Shown: 59899-000

Part No.	Model
59935-000	AIRTEK Freightliner Western Star Sterling
59935-002	AIRTEK Freightliner Western Star Sterling
59935-003	AIRTEK – Volvo

Rear Suspensions

Popular Parts

Rear Suspensions

ULTRA ROD Two-Piece Torque Rods



Spacer End – Straddle

Part No.	Length	Bushing
66661-000H	27"	47691-000H
66660-000H	35"	47691-000H

Tube End – Straddle

Part No.	Bushing
66610-000H	47691-000H



Spacer End – Taper Pin

Part No.	Length	Bushing
66681-000H	27"	64697-000H
66691-000H	27"	66735-000H
66671-000H	27"	64809-000H
66680-000H	35"	64697-000H
66690-000H	35"	66735-000H
66670-000H	35"	64809-000H

ULTRA ROD PLUS Two-Piece Torque Rods



With Bushing

Part No.	Bushing
Spacer End	
46661-001	64400-002 Straddle
46681-001	64400-004 3" Taper
Tube End	
46610-001	64400-002 Straddle



Without Bushing

Part No.	Type
64474-000	A – Spacer End
64473-000	B – Tube End

One-Piece Torque Rods



Part No.	Length	Bushing
62007-365	14.37"	47691-000H
49681-001	14.40"	47691-000H
57950-007	14.40"	47691-000H
58757-005	21.50"	47691-000H
62700-570	22.44"	69210-000H
62001-580	22.83"	47691-000H
58757-605	23.81"	47691-000H
58757-615	24.25"	47691-000H

Torque Rod Bushings



Part No.	Type	Hole Dia.	Mtg. Ctrs.
47691-000L	Straddle	5/8"	4 3/4"



Part Shown: 44695-000L

Part No.	Type	Hole Dia.	Mtg. Ctrs.
44694-000L	Straddle	5/8"	4 3/8"
44695-000L	Straddle	5/8"	4 3/8"
49210-000L	Straddle	3/4"	4 3/8"
57256-000L	Straddle	5/8"	4 3/8"
48304-000L	Straddle	7/8"	5 1/4"



Part No.	Type	Hole Dia.	Mtg. Ctrs.
47699-001L	Offset Straddle	3/4"	5 1/16"



Part Shown: 44697-000L

Part No.	Type
44697-000L	3" Taper
46735-000L	17/8" Taper



Part Shown: 45477-000L

Part No.	Type
45477-000L	Through Hole
64400-002	Bonded Bushing

Air Springs



Part No.	Model
58786-002	AL 405
64917-002	AL 405



Part Shown: 50405-002L

Part No.	Model
50405-002L	HA
50898-002L	HAS
58520-002	HAS
57122-002L	HAS
60925-002	COMFORT AIR
60929-002	COMFORT AIR
60271-002L	PRIMAAX

Height Control Valves



Part Shown: 59899-000

Part No.	Model
59899-000	HAS AL405/Maxair
60501-000	HAS Integrated Dump Valve

Spring Seats – Mack AL Series



Part Shown: 56563-000

Part No.	Model
56563-000	Mack-6" RHF/RHR
56562-000	Mack-6" LHF/LHR

Main Support Members



Part Shown: 56946-000

Part No.	Model	Thickness
56946-000	HAS 46K	2.00"
56943-000	HAS 40K	1.88"
57217-000	HAS 40LH	1.75"
56940-000	HAS	1.75"
56871-001	HA 40K	1.88"
48645-001	HA 46K	2.38"
48112-001	HA 36K	1.63"



Part Shown: 58691-000

Part No.	Model
58691-000	AL405 / MAXAIR – LH
58768-000	AL405 / MAXAIR – RH

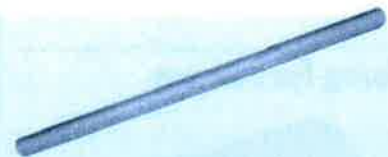
Shock Absorbers



Part Shown: 60685-001L

Part No.	Model
60670-003L	HAS
60670-005L	HAS
60670-006L	HAS
60670-007L	HAS
60670-008L	HAS
57241-006L	HAS
60685-001L	HAS Hi-Torque
60657-003	PRIMAAX
60657-005	PRIMAAX

Cross Tube



Part No.	Model
44642-022	HA 360-460

Walking Beam Suspensions

Springs – RT/RTE Series



Part Shown: 47057-000

Part No.	Model
45027-000	RT 400/403
47057-000	RT 460/463/480/503/ 520/523
02056-000	RT 650



Part Shown: 45322-000

Part No.	Model
45121-000	RTE 400/403
45322-000	RTE 460/463/480/503

Spring Eye Bushings



Part Shown: 30057-007L

Part No.	Model	I.D.
30057-007L	340 Series	1 1/4"
30057-008L	400–520 Series	1 3/8"
22285-000	650 Series	1 1/2"

Cross Tubes – R/RS/RT/RTE



Part No.	Model	Length
44643-009L	343–503 Series	44.88"
44642-008L	340 Series	44.88"
10397-014	650 Series	40.75"
07622-003	523 Series	46"

Spring Hanger Pins



Part Shown: 32276-000

Part No.	Model	Dia.
32276-000	Use with Draw Key 00062-001	1 1/4"
32277-000	Use with Draw Key-00062-001	1 3/8"
43146-000	Double Lock Style Hanger	1 3/8"
00005-000	Use with Draw Key 00081-001	1 1/2"
45797-000	Double Lock Style Hanger	1 1/2"

Load Cushions – RS Series



Part No.	Model
48973-000L	340/400 Series
26953-000L	460/520 Series



Part No.	Model
24209-000	Center Load Cushion

Saddle Assemblies RT/RTE Series



Part Shown: 31017-096L

Part No.	Model	Height
31017-022L	343/400/403	6"
31017-109L	403	7 3/16"
31017-096L	460/463	6"
31017-110L	460/463	7 3/16"
31017-053	523 – RT Only	6"
31017-077	523	7 3/16"
31017-004	650	7 1/8"

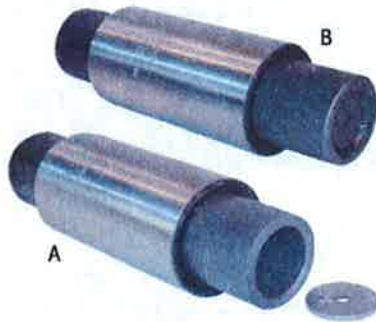
Shock Absorbers



Part Shown: 60680-003L

Part No.	Model
60680-003L	HN
60680-004L	HAULMAAX 16.5" Saddle Ht.
60680-005L	HAULMAAX 17.5"/18.5" Saddle Ht.

Rubber Center Bushings



340 Series

A: 22279-000L with loose plug
B: 06664-000L



380 Series

C: 22282-000L with loose plug
D: 05919-000L

Rubber Center Bushings



400 Series

E: 49400-000L High Confinement
F: 49600-000L High Confinement with loose plug



460-523 Series

34013-097L with loose plug
29483-005L

650 Series

10366-000L

Rubber End Bushings



Part No.	Model	Length
06966-000L	280 Series	4½"
06969-000L	340 Series	5¼"
45900-000L	460 Series	5¾"
29878-001L	480-520 Series	5¾"
45407-000L	520 Series	6"
10363-000L	650 Series	6"
10364-000	850 Series	7"

Vertical Drive Bushing



RS Series

19279-000L

POPULAR FASTENERS



Part No. 48574-000
Description Spherical Washer



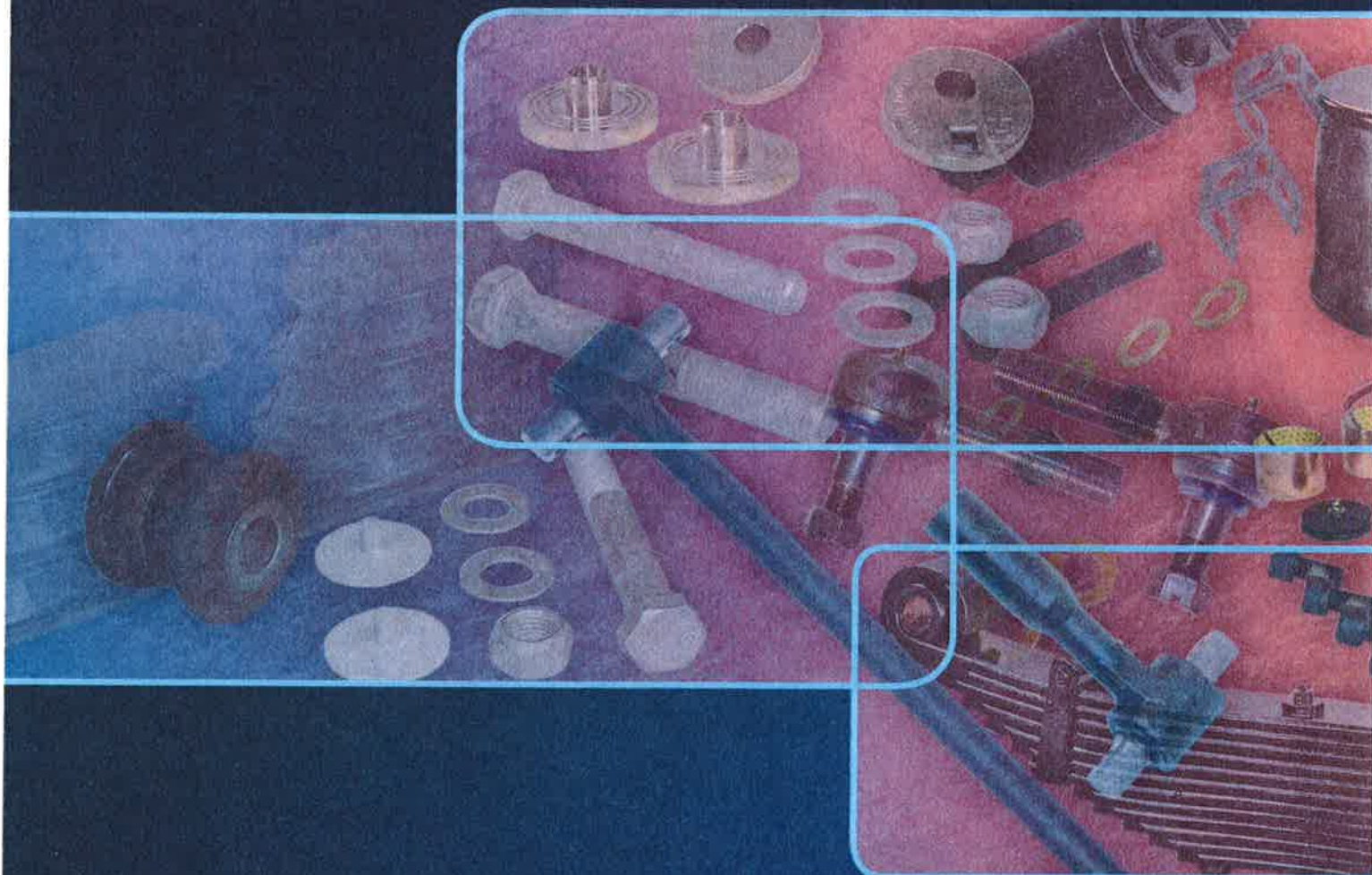
Part No. 22962-002
Description 7/8" Hardened Washer
Part No. 22962-006
Description 1" Hardened Washer



Part No. 06696-000
Description 7/8"-14 UNF Saddle Cap Stud



Part No. 08017-000
Description 1"-14 UNS Locknut



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

630.910.2800
Fax 630.910.2899



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 **HENDRICKSON**
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H **GENUINE PARTS**

www.hendrickson-infl.com





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

■ REFLUSE

■ FRONT

■ REAR

■ SIDE LOADER

■ RV

■ SNOWPLOW

■ TANKER

■ TRANSMIT MIX

■ CUSTOM



Call toll-free 1-866-755-5968 or visit 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 ²	D ²	D ²
	Optional	D ²	D ²	D ²	A ¹	A ¹	A ¹
40,000 lbs.	Standard	B	B	B	D ²	D ²	D ²
	Optional	D ²	D ²	D ²	B ¹	B ¹	B ¹
46,000–52,000 lbs.	Standard	D ²	D ²	D ²	D ²	D ²	D ²
	Optional	C ¹	C ¹	C ¹	C ¹		

- 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.

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 Fax 630.910.2899

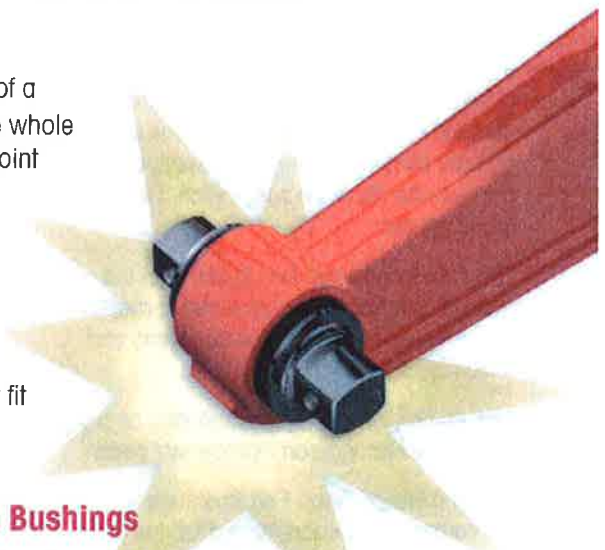
GENUINE PARTS

Beam End Bushings

Hendrickson Rubber Beam End Bushings are made of a premium grade rubber compound formulation that works with the whole suspension in mind. The rubber bushing's function is to provide joint articulation, transmit loads, and to absorb shock loads. The Hendrickson formulation is specifically engineered to maintain performance, reduce suspension wear, and maximize durability.

Don't Settle for Substitutes

Insist on only Hendrickson Genuine beam end bushings for exact fit and optimum performance.



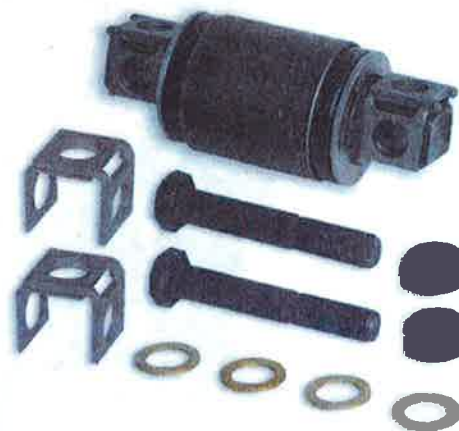
Standard Beam End Bushings

Available with or without the adapter kits, these bushings have proven themselves time and again. The high quality steel inner and outer metal contains the custom rubber design, which is backed with a one-year limited warranty under normal usage.



Hendrickson Bar Pin Beam End Bushings

Designed with a commitment to quality, these special bushings provide many benefits for both the installer and truck owner.



- Easy access to fasteners for removal and re-installation
- Shim equipped kits provide accurate and quick alignment
- Enhanced alignment to help increase tire life
- Superior service life for efficient vehicle operation and less down time.

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

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GENUINE PARTS

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H GENUINE PARTS

Beam End Bushings

Hendrickson walking beam suspensions equipped with our genuine beam end bushings provide articulation, distribute load, and absorb shock to maximize performance. The same genuine parts are necessary in service to maintain the life of the suspension. Don't settle for substitutes.

Genuine Hendrickson End Bushings — our material is specifically engineered to maintain performance, reduce suspension wear, and maximize durability.

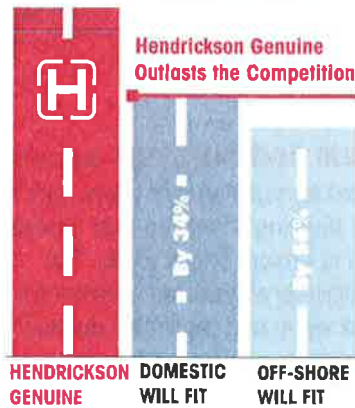
Always look for the Hendrickson logo as a sign of genuine Hendrickson replacement parts.

Genuine Hendrickson End Bushings outlast the competition in accelerated fatigue tests due to their premium material properties and key performance characteristics.

Radial Spring Rate — is a key bushing performance characteristic that describes how a bushing stands up to radial loading. Hendrickson beam end bushings were found to deflect up to 56 percent less than the competition.

Axial Spring Rate — is a key bushing performance characteristic that describes how a bushing responds to the loading that can cause walkout. Bushings need to be resistant to walkout in order to maximize durability. Hendrickson beam end bushings were found to resist walkout loading by as much as 79 percent more than the competitor's bushings.

RADIAL SPRING RATE



AXIAL SPRING RATE



RUBBER END BUSHING ADAPTER KITS

(Bushings included)

Kit Number	Capacity
34013-049L	440 Series
34013-050L	480-520 Series
34013-048L	340 Series
34013-073L	460 Series
34013-051L	440 Series
34013-052	650 Series
34013-072	650 Series

BAR PIN END BUSHING KITS

Kit Number	Type
34013-088L	With Shims
34013-087L	Without Shims

RUBBER END BUSHING KITS

Kit Number	Capacity
06966-000L	280 Series
06969-000L	340 Series
45900-000L	460 Series
29878-001L	480-520 Series
45407-000L	520 Series
10363-000L	650 Series
10364-000	850 Series
15424-000	1000 Series



- Beam end bushings tested for equalizing beam end hubs 4.365" I.D. x 4.252" width.
- Accelerated fatigue tests measure the functional durability of a bushing and are used to compare the performance of similar bushings from various manufacturers.
- Radial and axial spring rates are measured in pounds force per inch (lb/in).
- The above data is based upon internal testing. Actual product performance may vary depending upon torque rods, suspension, vehicle types, configurations, operation, service and other factors.

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GENUINE PARTS

Shock Absorbers

Hendrickson Shock Absorbers are an integral part of the suspension, and need to be inspected regularly to help ensure optimum vehicle ride quality and handling. The use of air suspensions is increasing on tractors, trucks and trailers, causing a surge in the replacement market for shock absorbers.

Replacing genuine Hendrickson shocks with unauthorized replacements can alter the performance of the suspension.

To help ensure high end user satisfaction and peak system performance, Hendrickson supplies the same genuine components for service requirements as were installed in the original suspensions — with the same design, construction, performance and durability.

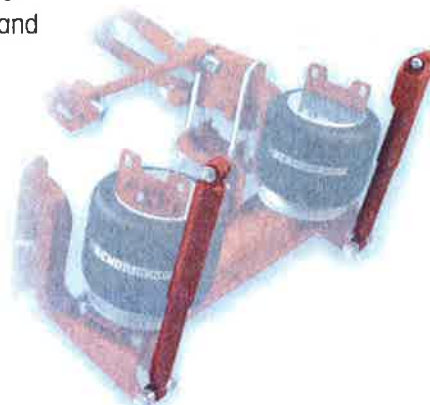


- Improved braking, sensitivity and better overall performance are built into Hendrickson shock absorbers.
- Non-genuine shocks may not have the correct specifications and operating parameters required for your Hendrickson suspension system. This can cause reduced performance and lead to damage to the suspension and related components.
- Genuine Hendrickson shock absorbers can easily be identified by the stamped Hendrickson name, logo and part number on the dust shield or cylinder.

HI-TORQUE™ Shock Absorbers



- These heavy-duty shock absorbers are available for use on Hendrickson's HAS air suspension for vehicles with high torque engines. They incorporate an advanced rebound spring which limits rapid shock extension during acceleration. They control torque induced frame rise and help to reduce driveline vibration. HI-TORQUE™ shocks provide increased carrying capacity and longer life, and they function as traditional shock absorbers to deliver a smooth, high quality ride.
- Replacing a HI-TORQUE shock with a non HI-TORQUE shock can cause premature wear and have adverse effects on the driveline and suspension components.



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

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 **GENUINE PARTS**

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H GENUINE PARTS

Shock Absorbers

Visual Inspection

Look for these potential problems when doing a visual inspection. Inspect the shock absorbers fully extended. Replace as necessary.



Damaged upper or lower mount



Damaged upper or lower bushing



Damaged dust cover and/or shock body



Bent or dented shock



Improper installation
Example: Washers installed backwards

Part No.	Model/Capacity	Comments
AIRTEK® • SOFTEK®		
58913-003L	AIRTEK® • Freightliner/Western Star	
58913-009	AIRTEK/SOFTEK® • Blue Bird 8K/10K	
58913-010	SOFTEK • Blue Bird 13.2K/14.6K	
58913-011	AIRTEK • Blue Bird 14.6K	
64838-002L	AIRTEK • Volvo/Mack	
64838-003L	AIRTEK • Volvo	
65992-001	AIRTEK • International Truck	Sleeper
65992-002	AIRTEK • International Truck	Day Cab, All Vehicles, NEC • PEC
65992-003	AIRTEK • Blue Bird	
HTB™ LT		
60657-006	International Truck	
60657-008	International Truck	
PRIMAAX® EX • FIREMAAX® EX		
60657-003	8½", 10" Ride Height	
60657-005	8½", 10" Ride Height	
60657-007	Volvo	
60665-011	12½" - 14¾" - 15½" Ride Height	
60665-013		Drum Brake Applications
60665-014		Disc Brake Applications
60665-015		Disc Brake Applications
60665-018		Drum Brake Applications
60680-005L		Drum Brake Applications
HAS™ SERIES		
60665-003	HAS 180 Blue Bird	
60665-004	HAS 150/210L/230L Blue Bird	Low Profile
60670-003L	HAS 150L	
60670-005L	HAS 190/210/230 • HAS 360/400/402/460	Inboard Rear
60670-007	HAS 400/402/460	
60670-008L	HAS 190L/210L/230L • HAS 400L/402L/460L • Nissan	Low Profile, Inboard Rear
60670-010	HAS 120L/150L/190L/210L/230L	Low Profile
60670-011	HAS 190/210/230/400	
60675-001L	HAS 190/230/400/460	HI-TORQUE
60675-002L	HAS 210/400/460	HI-TORQUE
60675-003L	HAS 190/210/230	HI-TORQUE
60675-004	HAS	HI-TORQUE
60675-005L	HAS 400/460	HI-TORQUE
60675-006	HAS 400/402/460	HI-TORQUE
60675-007	HAS 460	HI-TORQUE
60685-001L	HAS 40LH	HI-TORQUE
60680-001	HAS 40LH	HI-TORQUE
60680-002L	HAS 40LH	HI-TORQUE
COMFORT AIR®		
60670-013	Hino 210	
60670-014	Hino 190	
60670-017	Hino 210	
60670-018	Hino 230	
60670-019	Hino 210	
60998-003	Blue Bird	
MAXAIR • AL-405		
57241-006L		
HAULMAAX®		
60680-004L	16.5" Saddle Height	
60680-005L	17.5"/18.5" Saddle Height	
HN®		
60680-003L		
60670-002	11/88-2/96	
AR2™		
60665-012	400/460	

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H HENDRICKSON

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630.910.2800
Fax 630.910.2899

H GENUINE PARTS

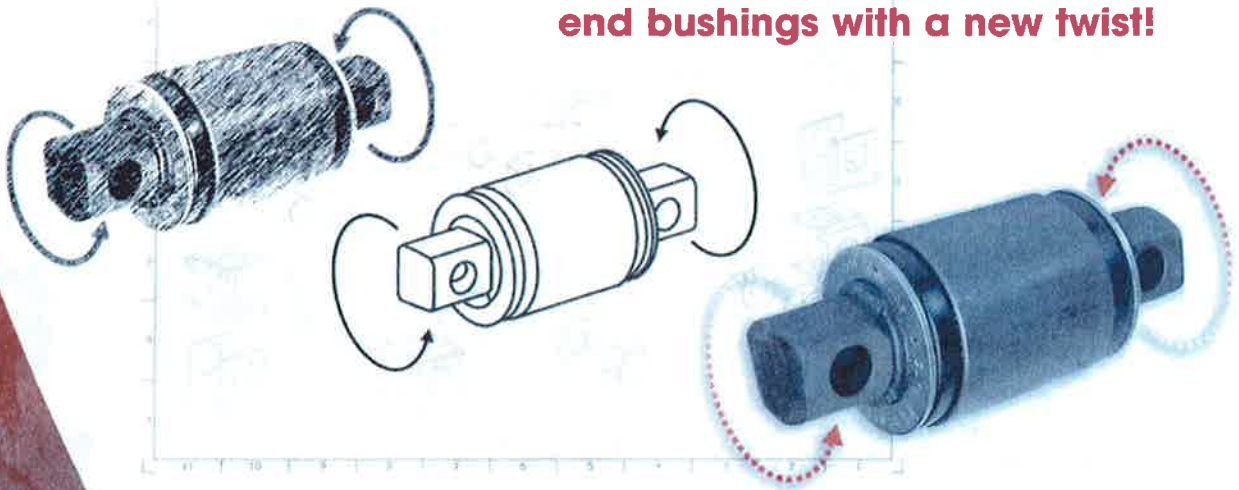
Rotating Bar Pin End Bushings

Hendrickson PUTS A NEW TWIST on End Bushings!

Hendrickson's continuing product development has re-defined the installation procedure for rubber end bushings. Designed with a commitment to quality and innovation, the new **Rotating Bar Pin End Bushing** is the latest development to provide many benefits for both the installer and truck owner.

Once pressed into the beam, the new rubber end bushing can now be rotated to the correct angle for a perfect installation **the first time...every time**. The bushing becomes fixed at the required angle when the installation is properly completed and will not continue to rotate once the truck is back in use.

SAVE TIME — Replace bar pin end bushings with a new twist!



The New Design Features:

- Hendrickson's genuine, high quality, natural rubber product with a hardened steel bar pin
- Saves time and labor costs by eliminating re-work from incorrectly installed bushings
- No need to mark the old bar pin position prior to removal
- No clocking necessary during bushing installation
- Ease of axle installation
- Seals to keep out damaging materials

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

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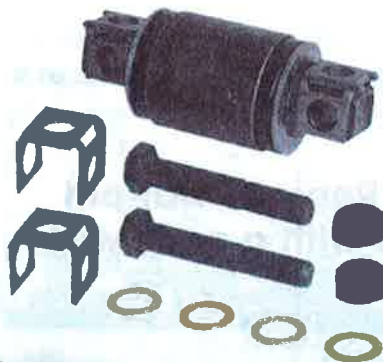
www.hendrickson-init.com



H GENUINE PARTS

Rotating Bar Pin End Bushings

Rotating Bar Pin End Bushing Kit Number **34013-188L**



Kit Contents

Qty.	Description
1	Rotating Bar Pin End Bushing
2	Bar Pin Shims
2	Hex Bolts
4	Washers
2	Locknuts

***Two (2) kits per beam or four (4) kits per suspension required to do a complete re-bush job.**

The new rotating bar pin end bushing will work with any Hendrickson application or suspension where a current 34013-088L or 34013-087L kit is used.

**Need more info, call toll-free
1-866-755-5968**

The New Rotating Bar Pin End Bushing Kit Number 34013-188L

- Can be installed on all of the following Hendrickson suspensions equipped with equalizing beams: AR2™, R™, RS™, RT™/RTE™, HN®, and HAULMAAX®
- No special tools are required to rotate the new bar pin bushing; a standard shop wrench will rotate the bushing into position with the axle
- Available as a complete installation kit. Kits include shims to provide accurate and quick alignment and help increase tire life



Look for other Hendrickson Genuine Parts



**ORIGINAL PARTS
ORIGINAL FIT
ORIGINAL PERFORMANCE**



Always look for the Hendrickson logo as a sign of genuine Hendrickson replacement parts. Go to www.hendrickson-intl.com for more information on Hendrickson products.

www.hendrickson-intl.com



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800 South Frontage Road
Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899

GENUINE PARTS

Bolster Springs

Hendrickson Bolster Springs used on the HN® and HAULMAAX® suspensions have redefined the way in which rubber springs perform. The unique designs and high grade rubber withstand heavy loads in rugged applications. Correct setup and regular inspections are key in maintaining optimum bolster spring and suspension operation. To help ensure high end user satisfaction and peak system performance, Hendrickson supplies the same genuine components for service requirements as installed on the original suspensions with the same design, construction and performance.

HN Bolster Springs

- Proprietary rubber compounds are used to provide ideal articulation and ride quality
- The VariRate® system combines a plate design with the bolster springs to create a more comfortable ride quality while either empty or loaded
- As payload increases, the bolster springs continue to compress until the auxiliary springs engage. This produces a secondary system stiffness that provides extra ride stability under loaded conditions
- HN bolster springs also absorb vertical road inputs and fore/aft shock to deliver superior driver comfort and handling

HAULMAAX Bolster Springs

- HAULMAAX bolster springs work in conjunction with the auxiliary springs and shim plates to provide outstanding ride quality in both the loaded and unloaded conditions
- A tie-bar version is available for the 40,000 pound capacity HAULMAAX and is mandatory on the 46,000 pound version
- Auxiliary spring shims can be adjusted for different empty body weights, making HAULMAAX another ideal choice for trucks being used in varying applications
- A steel pin is embedded into the center of the spring to add rigidity and help support heavier payloads

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

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 **GENUINE PARTS**

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H GENUINE PARTS

Bolster Springs

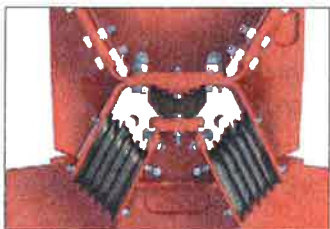
Shear and Compression

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

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

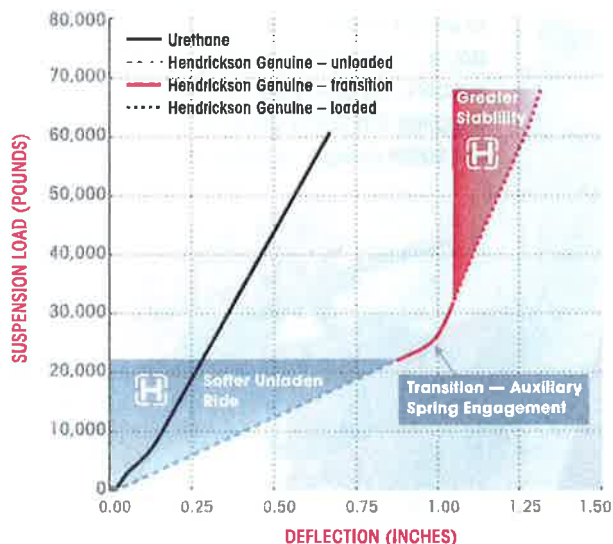


HMX-Unloaded Condition



HMX-Loaded Condition

HN BOLSTER SPRING SYSTEM STIFFNESS HENDRICKSON GENUINE VS URETHANE



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

Bolster springs should always be replaced with Hendrickson genuine bolster springs and in pairs per beam. See details in Hendrickson technical publication numbers 17730-227 (HN) and 17730-244 (HAULMAAX). Look for more information on Hendrickson products online at www.hendrickson-intl.com.

Bolster Spring Service Kits



HAULMAAX Tie-bar Service Kit 64179-037

- 1 Tie-bar Bolt
- 1 Bolt Spring Spacer
- 2 Bolster Springs
- 9 Flange Nuts



HAULMAAX Service Kit 64179-002

- 2 Bolster Springs
- 8 Flange Nuts



HN (Feb. 1996 to Current) Service Kit 60879-000

- 2 Bolster Springs

HN (Nov. 1988 - Feb. 1996) Service Kit 64718-000

- 2 Bolster Springs

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H GENUINE PARTS

Air Springs



Hendrickson Air Springs are integral parts on our line of truck and tractor air suspensions, providing driver comfort and optimum performance. Regular suspension inspections are necessary to help ensure maximum ride quality and handling. Replacing Hendrickson air springs with non-genuine springs can have a negative impact on suspension performance.

To provide high end user satisfaction and peak system performance, Hendrickson supplies the same genuine components for service as were installed in the original suspensions — with the same design, construction, performance and durability.

- Hendrickson air springs are designed and tuned specifically for approved applications.
- Ride quality and performance are key factors when designing the internal makeup of Hendrickson air springs. A low natural frequency is achieved through proprietary piston and bump stop components. Using non-genuine air springs can alter the weight rating and performance of Hendrickson suspensions.
- Hendrickson air springs undergo advanced design and testing processes to provide enhanced suspension ride, handling and performance.
- Look for the Hendrickson name and logo on the air spring to guarantee you are getting genuine Hendrickson service parts.



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

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H GENUINE PARTS

Air Springs



Part No.	Model	Capacity/Other	Comments
AIRTEK® • IFS™			
66349-002L	AIRTEK • Volvo • Mack	12K/12.5K	Vehicles built 03/05-06/07 equipped w/Dual Height Control Valves MUST use air spring with support plate service kit number 60961-182.
66349-002L	AIRTEK • Spartan	10.5K/12K	
60716-002L	AIRTEK • Volvo • Mack	13.2K/14.6K	
59823-002	AIRTEK • Freightliner • Western Star		
65790-002L	AIRTEK • International Truck		
	AIRTEK • Spartan	12.6K/14.6K	
68348-002L	IFS • Spartan		
HTB™			
60977-002	HTB LT • International Truck		
60977-002	HTB 210 • Spartan		Mid Engine, Rear Engine, Drive Tag
COMFORT AIR®			
60925-002	COMFORT AIR • Blue Bird		
60929-002	COMFORT AIR • Blue Bird		Front Engine
65086-002	COMFORT AIR • Hino		
HAS™ SERIES			
56917-002L		150L/190L/210L/230L 400L/402L	
59055-002		190	Air spring only, with metric studs
57122-002L			
58520-002L		190/210/230/400/402/460	
50899-002L		210/230/400/402/460/40LH	
59861-002		210	
50898-002L	HAS	40LH	
57920-002L		Low Profile 120L	
57965-002L		Low Profile 120L	Air spring only
58983-002		Low Profile 210L/230L	
59031-002		Low Profile 150/210L/230L	
49048-002L			Air spring only
64489-002			
64651-002			
50405-002L	HA		
64917-002	MAXAIR/AL-405		
58786-002	MAXAIR/AL-405		
PARASTEER™			
58484-002L	PARASTEER • Blue Bird	TCRE/CSRE, TCSE/CSFE/HDRE, QBRE/C4RE	
59601-002L		TSFE/CIFE	Flat Floor
AR2™			
65455-002		400/460	Forward
65652-002	AR2	400/460	Rear
65998-002		520	
PRIMAAX® EX • FIREMAAX® EX			
Ride Height 8½"-10"			
67063-002L	PRIMAAX EX	232/462/692	
67392-002	FIREMAAX EX	242/482	
67234-002	PRIMAAX EX • International Truck	232/462/692	Includes upper air spring bracket and fasteners
60271-002L	PRIMAAX • Type A	230/460/690	
65183-002	FIREMAAX • Type A	240/480	
67247-002	PRIMAAX EX	262/522/782	Includes support plate, upper air spring bracket, and fasteners
68056-002	FIREMAAX EX	272/542	Includes upper air spring frame bracket and fasteners
65282-002	PRIMAAX/FIREMAAX • Type A	260/520/780 • 270/540	Air spring only
66255-002	PRIMAAX • Type A	260/520/780	Includes upper air spring bracket and fasteners
Ride Height 12½" 14½" 15½"			
67391-002	PRIMAAX EX/FIREMAAX EX	232/462/692 • 242/482	
65032-002	PRIMAAX/FIREMAAX • Type A	230/460/692 • 240/480	Air spring only



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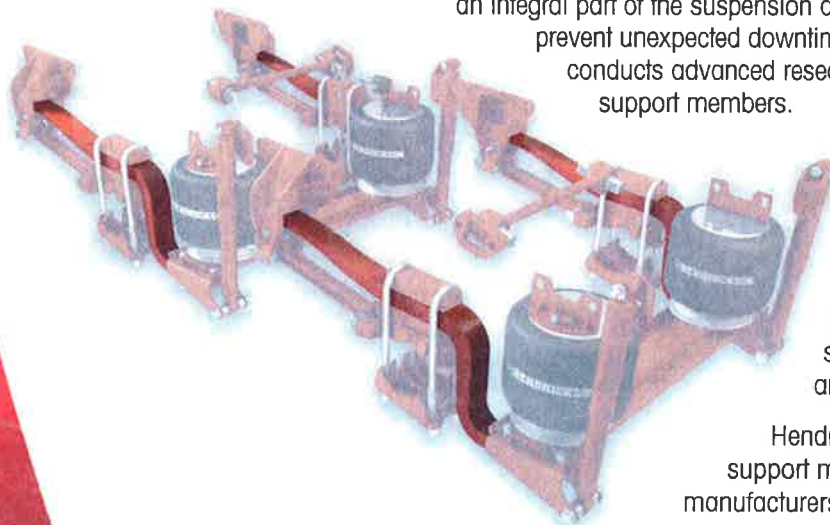
Truck Systems Group
800 South Frontage Road
Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899

GENUINE PARTS

Main Support Members

Hendrickson Main Support Members also called "Z" springs or "Z" bars — are an integral part of the suspension and need to be inspected regularly to help prevent unexpected downtime. As the industry leader, Hendrickson conducts advanced research and development for springs and main support members.



To help ensure high end user satisfaction and peak system performance, Hendrickson supplies the same genuine springs for service requirements as were installed in original Hendrickson suspensions — with the same design, construction, performance, and durability.

Hendrickson, a leading manufacturer of main support members, supplies major OE truck manufacturers throughout the world.

- Hendrickson's main support members are manufactured using a unique, proprietary, fine-grain alloy with high tensile strength, developed specifically by Hendrickson engineers and steel manufacturers.
- The qualities of the alloy enable Hendrickson to optimize the balance between roll stiffness, ride quality and long service life.
- Hendrickson's main support members go through a proprietary heat-treat process, for enhanced quality and durability.
- Critical surfaces of the main support members go through a proprietary "high intensity, stress-peening" process to increase the fatigue life of the spring.



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

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H[®] GENUINE PARTS

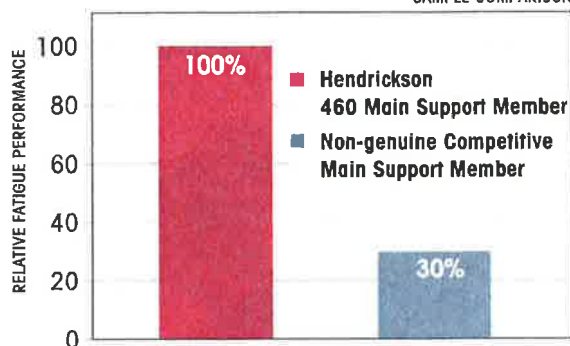
Main Support Members

Hendrickson's main support members continue to meet rigid OEM requirements, providing reliable and consistent performance.



MAIN SUPPORT MEMBER Fatigue Performance

SAMPLE COMPARISON



Fatigue performance is a measure of fatigue testing cycles. Above data is based upon internal fatigue testing. Actual product performance may vary depending upon suspension and vehicle configuration, operation, service and other factors.

Part No.	Capacity	Comments
HASTM[™] SERIES		
56946-000	HAS 230, HAS 402, HAS 460	
56943-000	HAS 210, HAS 400	
57217-000	HAS 40LH	
60262-000	HAS 40LH	
56940-000	HAS 190, HAS 360	
56937-000	HAS 120, HAS 150	
56934-000	HAS 230L, HAS 460L	Low Profile
56931-000	HAS 210L, HAS 400L	Low Profile
56928-000	HAS 190L, HAS 400L, HAS 400L	Low Profile
56925-000	HAS 120L, HAS 150L	Low Profile
48645-001	HA	
48112-001	HA 360	
48874-000	HA 400	
56871-001	HA 400	
48645-000	HA 460	
48645-001	HA 460	
COMFORT AIR[®]		
60779-000	COMFORT AIR Blue Bird	
65106-001	COMFORT AIR Hino	
MAXAIR • AL-405		
58691-000	MAXAIR AL-405	Left Hand
58768-000	MAXAIR AL-405	Right Hand

NOTE: When replacing main support members, Hendrickson recommends the replacement of the U-bolts and fasteners. Please specify U-bolt length when ordering.

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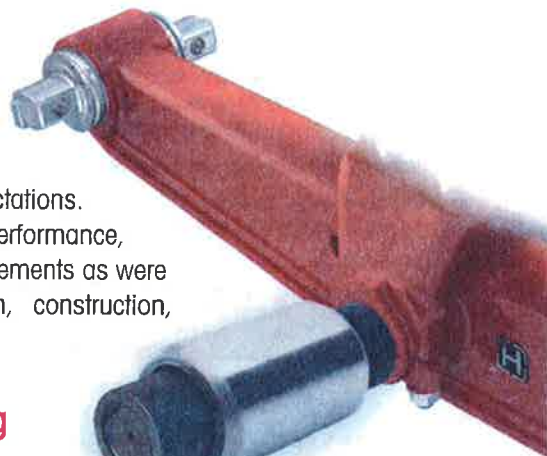
Truck Systems Group
800 South Frontage Road
Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899

GENUINE PARTS

Center Bushings

Hendrickson offers a complete line of genuine center bushings, each designed for a specific types of Hendrickson walking beam suspension capacities and configurations, to maximize system performance and meet user expectations. To help ensure high end user satisfaction, and peak system performance, Hendrickson supplies the same genuine components for service requirements as were installed in the original suspensions — with the same design, construction, performance and durability.



High Confinement Rubber Center Bushing



- The high confinement rubber center bushing is standard on all Hendrickson walking beam suspensions rated up to a 40,000 pound capacity. When used in conjunction with transverse rods, it can be specified up to a 46,000 pound capacity rating.
- It maintains a high resistance to bushing walkout over a longer period of time due to the confinement of the rubber.
- This bushing is also available with a loose plug for ease of cross tube installation.



Fully Bonded Rubber Center Bushings

- Designed for high capacity suspensions rated at 52,000 pound capacity, where low maintenance and help with maintaining low tire wear are valued benefits.
- Hendrickson's fully bonded rubber center bushing provides the extra strength and durability necessary to routinely handle heavy loads.



Bronze Center Bushings

- The bronze center bushing is standard on Hendrickson walking beam suspensions rated at 46,000 and 52,000 pound capacities.
- Designed for severe applications such as high-capacity suspensions that encounter extremely tight turns under heavy loads.

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H GENUINE PARTS

Center Bushings

TECHNICAL NOTES

- The decision to use rubber or bronze center bushings is dependent on a variety of factors dictated by the operating conditions and geographic location of the vehicle. For details, refer to Hendrickson "Equalizing Beam and Components" Selection Guide, No. 45745-147 available online at www.hendrickson-intl.com.
- Bronze center bushings are not to be used with transverse torque rods.
- To convert center bushings from bronze to rubber, contact Hendrickson Truck Parts toll-free at 1-866-755-5968 or email: truckparts@hendrickson-intl.com.



ORIGINAL PARTS • ORIGINAL FIT • ORIGINAL PERFORMANCE

Rubber Center Bushings

340-380 Series: This standard bushing series offered by Hendrickson, requires no lubrication maintenance and provides solid performance in a variety of applications.

Part No.	Series
06664-000L	340
22279-000L with loose plug	340
05919-000L	380
22282-000L with loose plug	380

400 Series: The standard 40,000 pound high confinement bushing offered by Hendrickson, requires no lubrication maintenance and provides solid performance in a variety of applications.

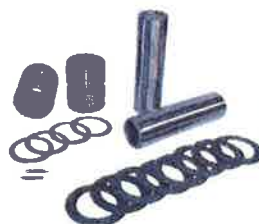
Part No.	Series
49400-000L	400
49600-000L with loose plug	400

***460-523 Series:** This bushing is designed specifically to stand up to higher capacities and severe service applications.

Part No.	Series
29483-005L	460-523
34013-097L with loose plug	460-523
10366-000L	650

* This bushing requires transverse torque rods.

**Bronze Center Bushing Kits



Kit No.	Series
30436-000L	340
34013-053	340
30437-000L	380-520
34013-054L	380-520



Kit No.	Series
45374-000	650
34013-055L	650



Kit No.	Series
34013-076	T 380
34013-077	T 440
34013-079	T 600
34013-081	T 900



Kit No.	Series
34013-078	T 600
34013-080	T 900

** Bronze center bushings are not to be used with transverse torque rods.

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Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899



Truck Suspension Systems
800 South Frontage Road
Woodridge, IL 60517-4904 U.S.A.

TOLL-FREE 1-866-755-5968
www.hendrickson-intl.com

REAR SUSPENSION APPLICATION APPROVAL REQUEST

58990-

DATE: _____		APPLICATION APPROVAL REQUESTER (Please provide the following information)			
ATTN: _____		Company Name: _____			
Send Fax to: 1-630-910-2847 Parts / Engineering Department		Contact Person: _____			
		Telephone: _____		Fax: _____	
		Mailing Address: _____			
		City, State, Zip: _____			
E-mail Address: _____					

VOCATION		VEHICLE INFORMATION			
☐ City Delivery	☐ Refuse - Rear/Side	VIN # _____			
☐ Construction	☐ Refuse - Front Loader	☐ Tractor w/Semi-Trailer	☐ Bus Coach	Auxiliary Axle	
☐ Crane Carrier	☐ Refuse - Roll Off	☐ Straight Truck	☐ Other	Other	
☐ Dry Freight	☐ Rescue/Ambulance	☐ Truck w/Full Trailer	☐ Auxiliary Axle/Other		
☐ Dump	☐ School Bus	Un-sprung Weight _____		☐ A - 6x2 Pusher ☐ F - 4x2 ☐ G - 6x4 ☐ H - 6x6 ☐ I - 8x4	
☐ Fire Department	☐ Snowblower/Snowplow	Maximum Load on Suspension (at the ground) _____		☐ B - 6x2 Tag ☐ C - 8x4 Pusher ☐ D - 8x4 Tag ☐ E - 10x4 Pusher	
☐ Heavy Haul	☐ Transmit Mix	Max.GCW _____ Max.GVW _____		☐ Front Engine ☐ Rear Engine	
☐ Mining	☐ Tanker	Wheel Base _____		☐ Front Engine ☐ Rear Engine	
☐ Logging	☐ Yard Tractor	EQUIPMENT DESCRIPTION			
☐ Oil Field	☐ RV	DRIVE AXLE INFORMATION		TIRE INFORMATION	
☐ Other	☐ Commercial Bus	Make _____		Make _____	
☐ Vehicle Model _____		Model _____		Front Size _____ Rear Size _____	
☐ Number of Units _____		Ratio _____		Front SLR _____ Rear SLR _____	
☐ Description of Operation _____		INSTRUCTIONS: Enter the dimensions for the appropriate axle shown.		ENGINE INFORMATION (Mandatory for Air Suspensions)	
☐ Country of Operation _____				Engine Model _____	
				Transmission Model _____	
				Peak HP @ Gov RPM _____ @ _____	
				Peak Torque @ RPM _____ @ _____	

REAR SUSPENSION DESIRED			EQUALIZING BEAM OPTIONS	
WALKING BEAM SUSPENSIONS¹	AIR SUSPENSIONS	OTHER SUSPENSIONS	FOR WALKING BEAM SUSPENSIONS	
☐ AR2 ³ (Air Ride Walking Beam)	☐ PRIMAAX ^{3,4} (Air Springs)	☐ HTB (Mechanical)	PICK ONE CENTER BUSHING²	PICK ONE END BUSHING
☐ HAULMAAX ^{2,3} (Rubber Springs)	☐ HAS ^{3,4} (Air Springs)	☐ HFS (Four Springs)	☐ Bronze Center Bushing	☐ Bar Pin End Bushing - Shim Type
☐ HN ^{2,3} (Rubber Springs)	☐ COMFORT AIR ^{3,4} (Air Springs)	☐ T (Crane Carrier Solid Mount)	☐ Rubber Center Bushing	☐ Bronze End Bushing
☐ RT (Steel Springs)	☐ HTB ⁴ (Air)	☐ Other		☐ Through Bolt End Bushing
☐ RTE (Two Stage Steel Springs)	NOTES: ¹ Pinion angle information is not required for walking beam suspensions.			
☐ RS (Rubber Load Cushions)	² Center bushings are not required for HAULMAAX or HN walking beam suspensions.			
☐ R (Solid Mount)	³ Transverse torque rods required.			
	⁴ Pinion angle information required.			

Furnished By Axle Manufacturer		MISCELLANEOUS COMPONENTS			
Beam Hanger Brackets	Torque Rod Axle Bracket	Torque Rod Frame Bracket	Torque Rod Length	Transverse Rod Axle Bracket	Transverse Rod Length
Part of Axle ☐ Yes ☐ No	Part of Axle ☐ Yes ☐ No	☐ Straddle ☐ Taper	(measure center to center)	Part of Axle ☐ Yes ☐ No	Front _____
Drop _____	If yes, what type		Front _____	If yes, what type	Rear _____
Width Between Legs _____	☐ Straddle ☐ Taper		Rear _____	☐ Straddle ☐ Taper	

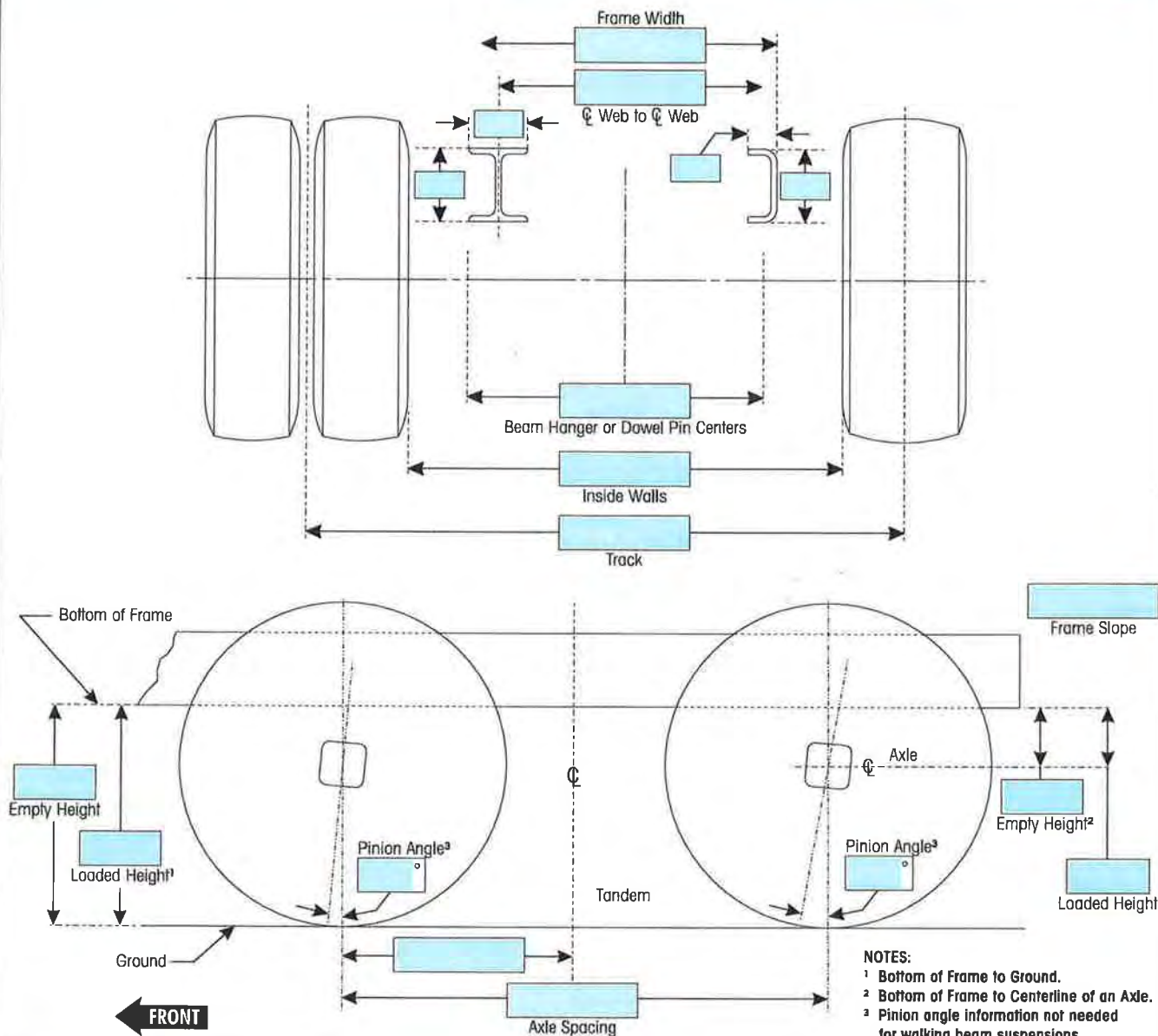
FOR OFFICE USE ONLY	
Rear Suspension Recommended:	B/M Number:
Approved by: _____	Customer Number:
Comments: _____	CR Number:

58990-

REAR SUSPENSION APPLICATION APPROVAL REQUEST



DIMENSIONAL DIAGRAM (Please fill in all applicable dimensions)



WARNING

OVERLOADED SUSPENSIONS CAN CAUSE COMPONENT FAILURE, LOSS OF VEHICLE CONTROL, SEVERE PERSONAL INJURY OR DEATH.

- DO NOT EXCEED SUSPENSION CAPACITY RATINGS.
- DO NOT OPERATE AUXILIARY LIFT AXLES OR OTHER LOAD TRANSFERRING DEVICES IN ANY WAY THAT CAN OVERLOAD THE SUSPENSION.

TERMS AND CONDITIONS

This Rear Suspension Application Approval ("Approval") by Hendrickson Truck Suspension Systems ("Hendrickson") is subject to, at minimum, the following terms and conditions:

- This Approval is (i) general in nature, (ii) based solely upon the above-referenced information as provided by the REQUESTER and without Hendrickson's first-hand knowledge of such information, and (iii) does not account for any additional information regarding the subject vehicle's operating condition and configuration, or any unauthorized modifications or repairs that may have been conducted.
- The subject application(s) and the installation, operation, service and maintenance of Hendrickson suspension systems and related components must comply with all applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson and the respective vehicle manufacturer. Contact Hendrickson for any additional copies of its applicable written materials.
- This Approval does not account for, nor shall Hendrickson in any way be responsible for, any adverse effect on the suspension's form, fit or function or any damages due to improper installation, operation, service or maintenance, unauthorized modification, neglect, accident, misuse, or operation beyond the written capacity ratings of the suspension system or the vehicle to which such

equipment and components are attached.

- This Approval is null and void if (i) any of the information provided by the REQUESTER is incorrect or incomplete, or (ii) there is any deviation from the applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson and the respective vehicle manufacturer regarding the installation, operation, service and maintenance of the suspension systems and related components.
- This Approval does not constitute an expressed or implied warranty, including any warranty of merchantability or fitness for a particular purpose.
- Hendrickson reserves the right to modify this Approval, and any recommendations and/or prices if the above-referenced information provided by the REQUESTER changes in any way. The REQUESTER shall immediately notify Hendrickson's Sales Engineering Department in writing of any/all changes in such information (including, but not limited to, vehicle frame, height, load, rear axle, or tire size) that may affect the suspension.

REQUESTER:

Authorized Contact Person: _____

Title: _____

Signature _____

Date: _____

Submit Form by E-mail

Print Form