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Hendrickson Trailer Commercial Vehicle Systems (Hendrickson) warrants that all trailer suspensions listed on the following pages shall be free of defects in material or workmanship, from original date of service. This warranty coverage only applies to those suspensions that have been properly assembled and installed by a trailer OEM (Original Equipment Manufacturer), properly maintained (as described in all applicable Hendrickson publications) and used in the recommended application and within the rated capacities (as described in Hendrickson literature number L707 Hendrickson Application Guide). Refer to TRAILER APPLICATIONS on the back cover of this publication. All non-recommended suspension applications must receive written approval from Hendrickson in order to be covered under this warranty.

The terms and coverages in this warranty document apply only to the United States and Canada.

CONTACT HENDRICKSON
Hendrickson Trailer Technical Services Department can be contacted using these methods:

Email:
HTTS@hendrickson-intl.com

FAX:
800-696-4416
Attn. Warranty

Phone:
866.RIDEAIR (743.3247)

From the audio menu, select “Technical Services / Warranty”.

NOTE: If you need warranty information for other markets, contact the responsible market directly by phone or refer to the applicable Hendrickson website (e.g. Mexico, contact Hendrickson Mexicana at +52-442-296-3600). The terms and coverages in this warranty document may apply only to the United States and Canada.

COVERAGE
The Hendrickson suspension warranty coverage begins when the vehicle is originally put into service and ends when the time period, specified in the warranty COVERAGE on page 2 through page 11, is reached. Before filing a claim, review warranty coverage for the component(s), reference COVERAGE TABLES on page 5 through page 11.

• Prior to the warranty repair or replacement of suspension systems or parts (by a dealer, fleet, or other service provider authorized by the OEM of the subject trailer), the warranty claim must first be approved by the Hendrickson Technical Services Department. Trailer dealers should inspect all suspensions involved in a warranty claim and then contact Hendrickson for assistance.

• Hendrickson has the sole discretion and authority to approve or disapprove a warranty claim, authorize the repair or replacement of non-functioning systems and authorize the repair or replacement of parts.

• Approved labor hours will be reimbursed at the dealer’s posted retail labor rate. All warranty claims are subject to review and approval by the Warranty Administrator. Upon review, the dealer’s labor hours may be approved, if applicable, in accordance with the warranty policies, coverage guidelines and published labor allowances. For a listing of typical repairs, refer to LABOR ALLOWANCES on page 15 through page 22. CONTACT HENDRICKSON Technical Services Department to discuss allowances for anything not listed.

• Hendrickson does not reimburse part costs. Hendrickson will directly replace damaged or non-functioning Hendrickson parts relative to a warranty claim. Hendrickson is not responsible for any additional costs that may be incurred when replacement parts or materials are not acquired through Hendrickson.

• Only Hendrickson Genuine Parts or parts sold through Hendrickson may be used to repair Hendrickson trailer suspension products. Hendrickson’s warranty also applies only to genuine Hendrickson parts.

• Replacement parts provided under warranty inherit the remainder of the original suspension warranty. Goodwill or giveaway (sales policy) parts provided at no charge have no warranty.
• Do not destroy parts being considered for warranty. All parts in question must be returned to Hendrickson for evaluation. Returned warranty parts must be returned to Hendrickson within 45 days for timely processing of the warranty claim. Failure to return such parts may result in partial or complete loss of warranty coverage.
• Parts requested to be returned under warranty must be accompanied by a warranty claim number issued by the Hendrickson Technical Services Department.
• Freight charges will be reimbursed if the returned parts are found defective or not functioning. Parts returned under a warranty claim number must be sent prepaid.
• Product returned to Hendrickson under this warranty shall become the property of Hendrickson.
• Shop supply, miscellaneous supply or job supply reimbursement is 4 percent of invoiced labor charges, up to a maximum of $20.
• Costs and procedures will be determined when contacting the Hendrickson Technical Services Department to receive warranty authorization. Hendrickson will pay specified LABOR ALLOWANCES, listed beginning on page 15, when applicable following material inspection, determined by the Hendrickson Technical Services Department for the authorized repair or replacement of any defective component.

CONDITIONS
Warranty is subject to certain conditions, exclusions and limitations. Hendrickson reserves the right to reject a warranty claim for any or all of the following reasons.
• Failure to receive prior Hendrickson authorization.
• Claim information provided is insufficient.
• Failure occurred beyond coverage as published in COVERAGE TABLES on page 5 through page 11.
• Product requested to be returned was not returned for failure inspection within 45 days from date of request.
• Original components or parts requested for return were not returned for inspection.
• Product inspected does not substantiate claim or indicate a failure.
• Original claim was submitted to Hendrickson for a prior year following 60 days into the new year.

Warranty shall not apply to or include any repair or replacement as a result of the following conditions:
• Bending of any Hendrickson manufactured axle.
• System problems or parts failures that result from improper installation are the responsibility of the installer of the suspension.
• Accident, fire, flood or other casualty.
• Misuse or negligence including, but not limited to, overloading.
• Lack of reasonable and proper maintenance.
• Installation and repairs improperly performed or replacements improperly installed.
• Modification to a specific component part, not performed by Hendrickson, to function not as the part number was intended or in an alternate application for the specific part number.
• Modifications not recommended or approved by Hendrickson (in writing).
• Welding of the axle assembly or axle components except where approved (in writing) by Hendrickson.
• Welding of any of the suspension components, except where approved (in writing) by Hendrickson.
• Use of component parts, replacement or otherwise, that are not manufactured or distributed by Hendrickson.
• Uses other than those intended by Hendrickson and the trailer OEM.
• Normal wear and deterioration occasioned by the use of the suspension system.
• Any damage or failure caused by or otherwise attributed to any vehicle or trailer components, systems or equipment that are not manufactured or distributed by Hendrickson.

The liability of Hendrickson under this warranty is limited solely to the repair or replacement of defective material or workmanship by an authorized party.
Hendrickson shall not be liable for repairs performed by any unauthorized parties. This warranty does not include any expense of or related to transportation of the parts to or from the place where the repair is to be performed or compensation for inconvenience or loss of use while the suspension system is being repaired. Hendrickson shall not be liable for any expense, loss or damage (direct, incidental, consequential or exemplary — including, but not limited to, towing expenses, trailer rental, downtime expenses, cargo damage, incidental charges or any other losses arising in connection with the sale, use or inability to use the suspension system) resulting from the warranty-covered part found to be defective. No expressed warranty is given by Hendrickson with respect to its suspension systems and products except as specifically set forth herein.

Any warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the expressed warranty term provided in the warranty COVERAGE TABLES on page 5 through page 11.

IDENTIFICATION (ID) TAGS
Each Hendrickson suspension and TRLAXLE® non-integrated includes an attached ID tag (Figure 1 and Figure 2). For more details and identification tag locations, refer to Hendrickson literature number L977 Identification Guide at www.Hendrickson-intl.com/TrailerLit.

SUBMITTING A CLAIM
A Hendrickson warranty claim can be submitted using one of these methods:

ONLINE
The Hendrickson WCS (Warranty Claim System) is located at: https://extranet1.hendrickson-intl.com
Enter your Login ID and password. If you do not have an ID and password, CONTACT HENDRICKSON.

Claims filed prior to 3 p.m. Eastern time will be reviewed and acknowledged the same day.

EMAIL
For warranty, email Hendrickson Trailer Technical Services at: HTTS@hendrickson-intl.com
Include digital photographs via email.

PHONE
866.RIDEAIR (743.3247)
From the audio menu, select “Technical Services / Warranty”.

FAX
800-696-4416
Please add “Attention: Warranty” at the top of your fax. Be sure to include contact information with the FAX.
REQUIRED CLAIM INFORMATION

Details required to file a warranty claim include:

- **Hendrickson suspension** information, (see IDENTIFICATION (ID) TAGS on page 4) –
  - Suspension model number
  - Suspension serial number
  - Approximate number of suspension miles

- **Trailer information** (located on VIN plate) -
  - Type (van, reefer, flat bed, etc...)
  - Manufacturer
  - VIN (vehicle identification number)
  - In-service date
  - Fleet/owner name
  - Unit #

- **Failure information**
  - Description of the system problem, the part number and/or the part description of the reported non-functioning part.
  - **Date of failure.**
  - Where applicable, **location of problem** on suspension / trailer (e.g., road side, front axle, rear axle, curb side rear, etc.).

- **Digital photos** of suspension and damaged areas.

- **Special application** approval documentation (if applicable).

- **Labor description**, cost and time (if applicable according to COVERAGE TABLES on page 5 through page 11 and LABOR ALLOWANCES on page 15 through page 22).

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The coverage periods in the following table apply when the suspension has been properly assembled and installed by a trailer original equipment manufacturer (OEM), properly maintained (as described in all applicable Hendrickson publications) and used in the recommended application and within the rated capacities (as described in Hendrickson literature number L707 Hendrickson Application Guide). Coverage may differ on some items used in applications for which special written approval from Hendrickson has been granted. For more warranty coverage information, refer to CONTACT HENDRICKSON on page 2. If you need warranty information for Mexico, contact Hendrickson Mexicana at +52 (442) 296-3600 or refer to Hendrickson publication L826SP Póliza de Garantía - México for warranty information.

**NOTE:** The COVERAGE TABLES include a column for "SUSPENSION DESC" (descriptions) which are in the form of acronyms. A list of these acronyms are defined in HENDRICKSON SUSPENSION/AXLE TYPES on page 23.

MILEAGE TERMS

The parts and labor warranty coverage periods in the following table are based on a typical annual average usage of 100,000 miles. However, some high-mileage applications can easily reach 250,000 miles per year and above. Hendrickson, at its sole discretion, may adjust warranty coverage on a case-by-case basis for applications exceeding 100,000 miles per year during the respective warranty period. For intermodal chassis trailer applications, refer to page 15.
## COMPREHENSIVE WARRANTY STATEMENT USA AND CANADA

### COVERAGE TABLES *

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>SUSPENSION TYPE **</th>
<th>PARTS</th>
<th>LABOR</th>
<th>COMMENTS (RESTRICTIONS ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SLIDER SUSPENSION SYSTEMS</strong>&lt;br&gt;Ultraa-K® Slider Suspension Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slider Box Assembly</td>
<td>UTKNT 40K</td>
<td>5 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>ZMD® Air Spring</td>
<td>UTKNT 40K</td>
<td>3 years</td>
<td>3 years</td>
<td>Includes patented ZMD® down stops.</td>
</tr>
<tr>
<td>Pivoting Mud Flap Bracket Assembly</td>
<td>UTKNT 40K</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>Ultraa-K Slider Structural Corrosion Warranty</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slider Box Weldment</td>
<td>UTKNT 40K</td>
<td>10 years</td>
<td>5 years</td>
<td>Includes slider box weldments equipped with Hendrickson-applied hot dip wax coating only.</td>
</tr>
<tr>
<td><strong>All Slider Suspension Systems</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slider Box Assembly</td>
<td>All, except UTKNT</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>ZMD® Air Spring</td>
<td>UTKNT</td>
<td>3 years</td>
<td>3 years</td>
<td>Includes patented ZMD® down stops. Includes HKANT when ZMD equipped.</td>
</tr>
<tr>
<td>Air Spring (non-ZMD)</td>
<td>AAZ, HKANT, HKAT</td>
<td>2 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Slider Wear Pad</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Slider Pins, Pin Return Springs and Related Hardware.</td>
<td>AAZ, HKANT, HKAT</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>Slider Suspension and Axle 1 Components - All</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Trailing Arm-to-Axle Connection</td>
<td>AA, AAZ, HKA, UTK</td>
<td>10 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>Integrated Axle / Trailing Arm Assembly</td>
<td>HKANT 40K, HKANT 46K, UTKNT 40K</td>
<td>10 years</td>
<td>5 years</td>
<td>49” Closed-Space van applications 6</td>
</tr>
<tr>
<td>Frame Bracket (Hanger)</td>
<td>All</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Trailing Arm (Beam)</td>
<td>HT, ST</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Shock Absorber (non-ZMD equipped)</td>
<td>All</td>
<td>2 years</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Quick-Align® Pivot Assembly</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td>For non pre-aligned systems, proper trailer OEM installation is required. 4</td>
</tr>
<tr>
<td>Quick-Draw® Air Actuator</td>
<td>HK, HKA, UTK, AAZ</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td><strong>Narrow Tri-Functional III Bushings and Bushing Tube Spacers</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Van 49” Closed-Space Tandem Applications 6</td>
<td>HKANT 40K, HKANT 46K, UTKNT 40K</td>
<td>7 years</td>
<td>7 years</td>
<td>Refer to BUSHINGS for other bushing types and coverage.</td>
</tr>
<tr>
<td>Wide-Spread Van and Lifting Axle 7</td>
<td>AAZL, AAZNT, HK, HKANT, HKANL, HKAT</td>
<td>5 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td><strong>Wide Tri-Functional II Bushings and Bushing Tube Spacers</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Van 49” Closed-Spaced Tandem Applications 6</td>
<td>HKAL, HKARL, HKAT</td>
<td>7 years</td>
<td>5 years</td>
<td></td>
</tr>
</tbody>
</table>

* Some text reference numerical COVERAGE TABLE ENDNOTES on page 12.
** Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.

Continued on next page
## COMPREHENSIVE WARRANTY STATEMENT USA AND CANADA

### COVERAGE TABLES *(CONTINUED)*

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>SUSPENSION TYPE **</th>
<th>PARTS</th>
<th>LABOR</th>
<th>COMMENTS (RESTRICTIONS ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRIMARY FIXED AND LIFTABLE SUSPENSIONS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SUSPENSION AND AXLE 1 COMPONENTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Axle/Trailing Arm Assembly</td>
<td>AA</td>
<td>5 years</td>
<td>1 year</td>
<td>For OFF-HIGHWAY applications 3: Parts - 3 years, Labor - 1 year. For intermodal chassis applications, refer to page 15.</td>
</tr>
<tr>
<td></td>
<td>AAEDL, AAEDT</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Integrated Trailing Arm-to-Axle Connection</td>
<td>AA</td>
<td>10 years</td>
<td>5 years</td>
<td>For OFF-HIGHWAY applications 3: Parts - 3 years, Labor - 1 year. For intermodal chassis applications, refer to page 15.</td>
</tr>
<tr>
<td></td>
<td>AAEDL, AAEDT</td>
<td>10 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>Trailing-Arm-to-Axle Connection</td>
<td>CXU, CXY</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Trailing Arm (Beam)</td>
<td>B2AHT, CXSL, CXU, CXY, HT, T</td>
<td>5 years</td>
<td>1 year</td>
<td>For OFF-HIGHWAY applications 3: Parts - 3 years, Labor - 1 year</td>
</tr>
<tr>
<td>Frame Brackets (Hangers)</td>
<td>All Except AAEDL, AAEDT</td>
<td>5 years</td>
<td>1 year</td>
<td>For OFF-HIGHWAY applications 3: Parts - 3 years, Labor - 1 year</td>
</tr>
<tr>
<td>ZMD® Air Spring</td>
<td>AANT &amp; AAT when equipped</td>
<td>3 years</td>
<td>3 years</td>
<td>Includes patented ZMD® down stops.</td>
</tr>
<tr>
<td>Air Spring (non-ZMD)</td>
<td>All</td>
<td>2 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Shock Absorber (non-ZMD equipped)</td>
<td>All</td>
<td>2 years</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>QUIK-ALIGN Pivot Assembly</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td>Proper trailer OEM installation is required 4</td>
</tr>
<tr>
<td><strong>CONNEX® ST STEERABLE SUSPENSION SYSTEMS</strong> <em>(For common components, refer to applicable warranty coverage)</em></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trailing-Arm-to-Axle Connection</td>
<td>CXSL</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Steer Axle Knuckle Assembly</td>
<td>CXSL</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Kingpin, Kingpin Bushings, Tie Rod, Center Lock Assembly</td>
<td>CXSL</td>
<td>1 year</td>
<td>1 year</td>
<td>Includes centering actuator and chamber</td>
</tr>
<tr>
<td><strong>BUSHINGS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WIDE TRI-FUNCTIONAL II BUSHINGS AND BUSHING TUBE SPACERS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocational, Wide-Spread Van and/or Liftable Axle</td>
<td>AAL, AAT, B2AHT, CXSL, CXU, CXY, HT, T</td>
<td>5 years</td>
<td>3 years</td>
<td>For OFF-HIGHWAY applications 3: Parts - 3 years, Labor - 1 year</td>
</tr>
<tr>
<td></td>
<td>AAEDL, AAEDT</td>
<td>5 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td><strong>NARROW TRI-FUNCTIONAL III BUSHINGS AND BUSHING TUBE SPACERS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocational, Wide-Spread Van and Liftable Axle</td>
<td>AANL, AANLS, AANT, AAZNT</td>
<td>5 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td><strong>AXLES 1 <em>(TRLAXLE®)</em></strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Axle, Trailer (non-integrated, includes brackets)</td>
<td>Axle only</td>
<td>5 years</td>
<td>1 year</td>
<td>Includes intermodal chassis. Warranty void when brake camshaft rotation is opposite of wheel rotation.</td>
</tr>
</tbody>
</table>

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* Some text reference numerical COVERAGE TABLE ENDNOTES on page 12.  
Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.
### Coverage Tables *(Continued)*

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Suspension Type **</th>
<th>Parts</th>
<th>Labor</th>
<th>Comments (Restrictions Etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AFTERMARKET PARTS</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Genuine Hendrickson Replacement Parts (not installed as part of a warranty repair)</td>
<td>All</td>
<td>1 year</td>
<td>N/A</td>
<td>Requires original purchase or installation invoice.</td>
</tr>
<tr>
<td><strong>MAXILOK® TRAILER SUPPORT SYSTEM</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Components</td>
<td>HT250U, HT200UM</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>ALL OTHER SUSPENSION AND SLIDER COMPONENTS 5</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspension and Slider Components</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td>Includes slider wear pads (upper) and all other mechanical pin release / activation components.</td>
</tr>
<tr>
<td><strong>EXPORT (outside USA and Canada)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspension and Axle Components</td>
<td>All</td>
<td>1 year</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>BRAKES 19</strong></td>
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<td></td>
</tr>
<tr>
<td>ABS Sensor</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Dust Shield</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>DRUM BRAKE COMPONENTS - HENDRICKSON INSTALLED</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Linings and All Brake related Hardware</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td>Excludes all normal wear. Warranty void when brake camshaft rotation is opposite of wheel rotation. Includes corrosion of shoe table.</td>
</tr>
<tr>
<td>AAXTREME COAT® Brake Coating</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>Brake Camshaft</td>
<td>All</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Cam Tube (Off-Highway Applications)</td>
<td>All</td>
<td>3 years</td>
<td>1 year</td>
<td>Excludes brake camshaft wear.</td>
</tr>
<tr>
<td>Cam Tube (On-Highway Applications)</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>Automatic Slack Adjuster</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td>For OFF-HIGHWAY applications 3: 1 year parts. Coverage limited to components sold and installed by Hendrickson, but not included in a wheel-end package (excludes normal wear on brake drums).</td>
</tr>
<tr>
<td>Hendrickson Branded Slack Adjusters</td>
<td>All</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Brake Chamber</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Hendrickson Branded Brake Chambers</td>
<td>All</td>
<td>5 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Brake Drum (cast) — Not Overheated</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Brake Drums (Motor Wheel Centrifuse®)</td>
<td>All</td>
<td>1 year</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

---

* Some text reference numerical COVERAGE TABLE ENDNOTES on page 12.  
** Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.

Continued on next page
### Coverage Tables * (Continued)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Suspension Type **</th>
<th>Parts</th>
<th>Labor</th>
<th>Comments (Restrictions Etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hendrickson MAXX22T™</td>
<td>All</td>
<td>5 years 21</td>
<td>1 year</td>
<td>For ON-HIGHWAY applications 3:&lt;br&gt;Includes all brake related hardware, caliper, rotor and brake chamber. Excludes all normal wear.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 year 21</td>
<td>1 year</td>
<td>For OFF-HIGHWAY applications 3:&lt;br&gt;Includes all brake related hardware, caliper, rotor and brake chamber. Excludes all normal wear.</td>
</tr>
<tr>
<td><strong>Other Air Disc Brake (ADB) Systems/Components</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Pads and All Brake Related Hardware</td>
<td>All</td>
<td>1 year 8</td>
<td>1 year</td>
<td>Coverage limited to components sold and installed by Hendrickson.</td>
</tr>
<tr>
<td>Caliper</td>
<td>All</td>
<td>1 year 8</td>
<td>1 year</td>
<td>Excludes all normal wear. Bendix® ADB not approved in Dolly application.</td>
</tr>
<tr>
<td>Rotor</td>
<td>All</td>
<td>1 year 8</td>
<td>1 year</td>
<td>Includes all brake related hardware, caliper, rotor and brake chamber.</td>
</tr>
<tr>
<td>Brake Chamber 21</td>
<td>All</td>
<td>1 year 8</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>Hendrickson Wheel-End Packages</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HXL3® 10</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td>Coverage is limited to components sold and installed by Hendrickson. Accessory-type hubcaps or wheel covers of any kind, such as the chrome “top hat” style hubcap, increase wheel-end temperatures during operation and are not recommended for use on Hendrickson extended-service wheel-ends and could void the warranty.</td>
</tr>
<tr>
<td>HXL5® 11</td>
<td>All</td>
<td>5 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>HXL7® 13</td>
<td>All</td>
<td>7 years</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>Standard Service Hub Assembly</td>
<td>Trailer - All</td>
<td>1 year</td>
<td>1 year</td>
<td>Coverage limited to components sold and installed by Hendrickson.</td>
</tr>
<tr>
<td><strong>Other Wheel-End Packages</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ConMet Preset®</td>
<td>Trailer - All</td>
<td>5 years</td>
<td>5 years</td>
<td>Coverage limited to components sold and installed by Hendrickson. ConMet will administer their published warranty coverage direct with the customer. <a href="http://www.ConMet.com">www.ConMet.com</a></td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surelok® Trailer Ride Height Lock</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Components (Factory Installed Only)</td>
<td>AANT HK, HKA, UTK</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Air Actuator (Factory Installed Only)</td>
<td>AANT, HK, HKA, UTK</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Retrofit Kits (Not Factory Installed Components)</td>
<td>AANT, HK, HKA, UTK</td>
<td>1 year</td>
<td>1 year</td>
<td>Requires verification of kit number and includes retrofit air control kit.</td>
</tr>
<tr>
<td><strong>Lift Axle Systems</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Components</td>
<td>All applicable</td>
<td>1 year</td>
<td>1 year</td>
<td>Proper OEM installation required.</td>
</tr>
</tbody>
</table>

*Some text reference numerical COVERAGE TABLE ENDTNOTES on page 12.*

Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.
## COVERAGES TABLES* (CONTINUED)

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>SUSPENSION TYPE **</th>
<th>PARTS</th>
<th>LABOR</th>
<th>COMMENTS (RESTRICTIONS ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONTROLS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air and Electronic Controls (Excluding TIREMAAX®)</td>
<td>All, including non-Hendrickson suspensions.</td>
<td>1 year</td>
<td>1 year</td>
<td>Coverage limited to <strong>new</strong> trailer installations. Excludes TIREMAAX controls.</td>
</tr>
<tr>
<td></td>
<td>All, including non-Hendrickson suspensions.</td>
<td>1 year</td>
<td>N/A</td>
<td>Coverage limited to <strong>used</strong> trailer installations. Excludes TIREMAAX controls.</td>
</tr>
<tr>
<td>Single Axle Dump Valve</td>
<td>All</td>
<td>1 year</td>
<td>N/A</td>
<td>When installed together with competitor suspension or any used suspension, warranty applies to valve only.</td>
</tr>
<tr>
<td><strong>TIREMAAX® PRO AND CP TIRE INFLATION SYSTEMS</strong></td>
<td>(Applies to systems with hubcap-mounted rotary union purchased after January 2012)</td>
<td><strong>2 14 15 16 23</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TIREMAAX INTEGRATED WHEEL-END COMPONENTS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Axle Hose and Hubcap Assembly</td>
<td>All, including non-Hendrickson wheel-ends</td>
<td>5 years</td>
<td>5 years</td>
<td>The Hubcap Assembly includes an integrated rotary union. For HXL7® hubcap and integrated rotary union warranty, refer to HXL7® wheel-end warranty.</td>
</tr>
<tr>
<td></td>
<td>HXL7® 13 22</td>
<td>7 years</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td><strong>TIREMAAX CONTROL COMPONENTS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controller Assembly (PRO and CP models)</td>
<td>All</td>
<td>5 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>Wiring Harness</td>
<td>All</td>
<td>5 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td><strong>TIREMAAX EXTERNAL WHEEL-END COMPONENTS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tire Hoses</td>
<td>All</td>
<td>5 years</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td><strong>TIREMAAX AFTERMARKET RETROFIT KIT:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Kit Components</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td>If installed on Hendrickson suspension/axle equipped with HXL5® or HXL7, coverage of all internal axle components will match the wheel-end package coverage. 13 22</td>
</tr>
<tr>
<td>Non-Hendrickson suspensions and axles</td>
<td>1 year</td>
<td>N/A</td>
<td>The responsibility of the installation is with the installer</td>
<td></td>
</tr>
</tbody>
</table>

---

* Some text reference numerical COVERAGES TABLE ENDNOTES on page 12.
** Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.

Continued on next page
## Coverage Tables * (continued)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Suspension Type **</th>
<th>Parts</th>
<th>Labor</th>
<th>Comments (Restrictions Etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TiremaaX® EC and CP Tire Inflation Systems</strong> (Applies to systems with spindle-mounted rotary union purchased on or before January 2012) 2, 14, 15, 16, 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hendrickson-Installed TiremaaX with Hendrickson Installed Ready-to-Roll® Wheel-Ends: 17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Service Hub Assembly</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td>All internal TiremaaX axle components installed and assembled by Hendrickson. The trailer OEM completes the installation of remaining purchased TiremaaX components.</td>
</tr>
<tr>
<td>ConMet Preset™ Hub Assembly</td>
<td>All</td>
<td>5 years</td>
<td>3 years</td>
<td>Warranty terms do not include competitor tire inflation system components.</td>
</tr>
<tr>
<td>HLS™ (Hendrickson Long-life System) Hub Assembly 22</td>
<td>All</td>
<td>5 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>HXL7® Hub Assembly 22</td>
<td>All</td>
<td>7 years</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>Hendrickson-Prepared TiremaaX Axles Without Wheel-Ends: 17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Axle Hose, Rotary Union and Hubcap</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td>Some TiremaaX axle components are installed by Hendrickson (including but not limited to axle vent line, axle hoses) — the trailer OEM completes the installation of remaining purchased TiremaaX components; such as: rotary union, hubcap, etc.</td>
</tr>
<tr>
<td><strong>TiremaaX Control Components:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controller Assembly (EC and CP models)</td>
<td>All</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>Wiring Harness</td>
<td>All</td>
<td>3 years</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>TiremaaX External Wheel-End Components:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tire Hoses and Tee Fitting</td>
<td>All</td>
<td>1 year</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td><strong>TiremaaX Aftermarket Retrofit Kit: 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Kit Components</td>
<td>All</td>
<td>1 year</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Competitor Tire Inflation Systems 2, 14, 15</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td>All</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

* Some text reference numerical COVERAGE TABLE ENDNOTES on page 12.  
** Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.
3. Refers to APPENDIX B: TRAILER APPLICATIONS for trailer application definitions:
1. Cambering an axle in the field voids the axle warranty.
2. Axles that are drilled for a tire inflation system (Hendrickson or otherwise) that do not follow Hendrickson’s recommended drilling procedures (as described in Hendrickson literature numbers TS1002 TIREMAAX® PRO & CP Installation, Service and Troubleshooting, L995 TIREMAAX® CP Tire Inflation System Installation, Service and Troubleshooting Procedures or L818, TIREMAAX® Tire Inflation System - Installation, Service and Troubleshooting Procedures) could void the axle warranty. Unrecommended drilling could cause damage to the axle or other suspension components. Refer to page 8 through page 11 for additional information.
3. Refers to APPENDIX B: TRAILER APPLICATIONS on page 24 for definitions. Allowed and recommended suspension trailer applications are listed in Hendrickson literature number L707 Hendrickson Application Guide.
4. For non pre-aligned suspension systems, the installation and final assembly of the suspension pivot connection is performed by the respective trailer OEM. Refer to page 14 for further information.
5. Includes suspension and slider components that are not specifically covered in this table and are manufactured and distributed by and for Hendrickson.
6. For highway use only in 49 inch closed-spaced tandem applications on van- and reefer-type trailers.
7. For all Vocational trailers, single-axle, wide-spread and tridem sliders, specialty and spread-axle vans, dry freight van or refer-type trailers and trailers with liftable axle suspensions.
8. The suppliers of these non-Hendrickson components may offer warranty coverage beyond the terms listed here. Contact the appropriate supplier for complete details and continued warranty consideration.
9. Refer to page 14 for further information.
10. The three year parts and labor warranty terms apply to all On-Highway applications. To be eligible for warranty coverage in any Off-Highway application, HXL3® hub assemblies must be configured with HP spindles and Hendrickson dust shields. When properly configured, the warranty terms are one year parts and labor.
11. The five year parts and labor warranty terms apply to all On-Highway applications. To be eligible for warranty coverage in any Off-Highway application, HXL5® hub assemblies must be configured with HP spindles and Hendrickson dust shields. When properly configured, the warranty terms are three years parts and labor. When equipped, the TIREMAAX hubcap mounted rotary union and its hubcap carry the five year parts and labor warranty.
12. These warranty terms cover units purchased and serviced in the United States and Canada for line-haul, On-Highway service applications with a gross axle weight rating up to 23,000 pounds. These applications include auto haulers, vans, reefers, flatbeds and tank trailers. Coverage may differ in some applications where special written approval must be granted. Please contact your Hendrickson sales associate to determine if your application is warranted.
13. The seven year parts and labor warranty terms apply to all On-Highway applications, (except autohauler application). The warranty coverage for HXL7® hub assemblies in Off-Highway application is three years parts and labor. The HXL7 is not approved for autohauler applications. When equipped, the TIREMAAX integrated rotary union and its hubcap carry the seven year parts and labor warranty.
14. Competitor tire inflation systems are not covered by Hendrickson warranty terms. Contact the respective tire inflation system manufacturer for warranty coverage of competitor make and model.
15. Hendrickson does not provide warranty coverage for the installation, performance or components of a competitor brand tire inflation system installed on a Hendrickson suspension. Any consequential damages to the Hendrickson suspension resulting from a failure to the competitor brand tire inflation system or components, whether installed by the OEM, repair facility or end-user customer, should be directed to the respective tire inflation system manufacturer for warranty coverage. TIREMAAX is the only approved tire inflation system to be installed with a wheel-end installed by Hendrickson and compatible with the wheel-end applicable warranty coverage.
16. Installation must be per published technical procedures.
17. Includes all internal wheel-end / axle components, including rotary union and tubing.
18. Labor coverage applies only to Hendrickson installed components (including but not limited to axle vent line, axle hoses, spindle plugs, air control lines and beam grommets).
19. Brake wear is influenced by many factors; operators, tractor to trailer balance, application (city, flat, hilly or mountains), environmental contamination, use of hand operated trailer brakes, aerodynamics additions, engine size, vehicle and load weight, the use of engine brakes; to name a few. Due to these and other potential variables and the influence they may have on product performance, Hendrickson does not warrant the life cycle, or service life, of drum brake linings or disc brake pads.
20. ULTRAA-K® Ten Year Structural Corrosion Warranty:
   • Hendrickson warrants the ULTRAA-K slider box weldment against structural failures resulting from corrosion induced by typical On-Highway environmental conditions.
   • Use of high pressure wash, aggressive solvents or cleaners will void the structural corrosion warranty.
   • Does not include slider box weldment surface rust.
   • Structural corrosion warranty coverage is limited to the ULTRAA-K slider box weldment only. Does not apply to components or options attached to the slider box by Hendrickson, including but not limited to: locking pins, body clips, valve or air tank mounting, SURELOK®, mud flap attachment.
   • Valid only for hot dip wax coating applied by Hendrickson. Removal of Hendrickson-applied coating will void the structural corrosion warranty, refer to Hendrickson literature number T12004 Surface Coat Maintenance.

21. The vent plug for the Wabco TRISTOP™ D IBV (Internal Breathing Valve) brake chambers doubles as a check valve, operating with vent plug not properly installed will void the ADB warranty.

22. Wheel-end repairs performed prior to contacting Hendrickson Technical Services (page 2) voids the warranty.

23. Hendrickson does NOT recommend the use of any brand or type of tire sealant(s) when equipped with a tire inflation system.
ADDITIONAL WARRANTY COVERAGE INFORMATION

This section includes additional warranty information relative to the items listed below.

QUIK-ALIGN® PIVOT ASSEMBLY

Original equipment manufacturers (OEMs) have the option of ordering Hendrickson suspensions in one of two states: pre-aligned (available only on VANTRAAX® or ULTRA-A-K® slider suspension systems) or standard (non pre-aligned - available on all Hendrickson suspension systems). In either state, the pivot connection is warranted for one year parts and labor. The difference is in application and is as follows:

Hendrickson’s pre-aligned pivot connection warranty applies to all QUIK-ALIGN® pivot assemblies since installation and final assembly of the pivot connection is performed by Hendrickson.

Hendrickson’s standard (non pre-aligned) pivot connection warranty coverage applies only to QUIK-ALIGN pivot assemblies where proper installation and final assembly were performed. The installation and final assembly of the suspension pivot connection is performed by the respective trailer OEM. Proper installation includes, but is not limited to, the use and removal of the Torx® head of the pivot bolt to ensure proper pivot assembly torque along with the proper mounting of the alignment washers/collars (refer to Hendrickson literature numbers L577 HT/HS/HK Installation Procedures and L579 Alignment Procedures for additional assembly requirements). Pivot assembly components must be available for review for warranty consideration. Pivot assemblies that are missing the plastic band or other reuse indicator, on the pivot bolt hardware are not covered.

PRE-ALIGNED VANTRAAX® OR ULTRA-A-K® WARRANTY STATEMENT

Pre-aligned slider systems are built on precision fixtures and feature axles that are perpendicular to the slider box and parallel to each other. Documented measurement data confirms alignment and is shipped with each slider suspension system built with this option.

The trailer OEM is responsible for the total trailer alignment and all facets of construction required to accommodate the slider suspension system, such as trailer frame construction, proper placement of the kingpin, proper body rail installation and proper body rail spacing. Hendrickson provides body rail installation and spacing recommendations in various installation drawings.

Hendrickson does not recommend additional alignment adjustments by the dealer or distributor prior to delivery to the final customer (i.e., fleet, owner operator) and will not reimburse for any related parts or labor expenses from such additional adjustments. Hendrickson warrants the perpendicularity and parallelism of the axles relative to the slider box itself, based on established Hendrickson specifications, only until delivery of the pre-aligned slider suspension system to the trailer OEM.

If a performance concern is expressed by the customer regarding a pre-aligned slider suspension system, the customer or trailer OEM dealer should CONTACT HENDRICKSON prior to performing any adjustments or repairs. Hendrickson will guide and provide assistance to the customer, dealer and/or repair facility through validation checks and will provide corrective actions as necessary.

AIR DISC BRAKE WARRANTY STATEMENT

Hendrickson MAXX22T™ trailer air disc brake systems installed by Hendrickson will carry a limited parts and labor warranty, excluding all normal wear (Refer to page 9). Other air disc brake packages installed by Hendrickson will carry a limited one-year parts and labor warranty, excluding all normal wear.

Hendrickson offers air disc brakes with our standard service and RTR® READY-TO-ROLL® HXL wheel-end packages. In order to maintain the integrity of the wheel-end warranty, customers must contact Hendrickson Technical Services prior to performing maintenance on any air disc brake components and/or the wheel-end assembly.

Component supplier additional warranty coverages related to either ADB components or hub assembly packages will be administered direct with the customer by the respective component supplier.

DISC VERSUS DRUM

Brake wear is influenced by many factors; owner or broker, tractor to trailer balance, application (intercity, flat hilly or mountains), contamination, use of hand brakes, aerodynamics additions, engine size, vehicle and load weight and the use of engine brakes to name a few. Due to these and other potential variables and the influence they may have on product performance, Hendrickson cannot predict the life cycle of linings, pads or comparison of pads vs linings in a general statement. Each fleet scenario or comparison needs to be reviewed individually based on its own factors.
INTERMODAL CHASSIS APPLICATIONS
WARRANTY STATEMENT

The specified warranty for INTRAAX® suspensions used in intermodal chassis applications per Hendrickson literature number L707 Application Guide is based on a typical annual average usage of less than 15,000 miles. However, some applications may exceed 15,000 miles per year. Hendrickson, at its sole discretion, may adjust warranty coverage on a case-by-case basis for applications exceeding 15,000 miles per year during the respective warranty period.

Hendrickson Trailer Commercial Vehicle Systems (Hendrickson) warrants that its INTRAAX axles, when equipped in intermodal chassis axle applications, shall be free of defects and workmanship for the time periods listed in the following table:

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>TYPE</th>
<th>PARTS</th>
<th>LABOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle</td>
<td>INTRAAX</td>
<td>7 years</td>
<td>7 years</td>
</tr>
<tr>
<td>Rust Jacking 2</td>
<td></td>
<td>10 years</td>
<td>1 year</td>
</tr>
<tr>
<td>All other axle related components</td>
<td></td>
<td>1 year</td>
<td>1 year</td>
</tr>
</tbody>
</table>

1 Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.
2 Hendrickson E-coated shoes. Does not apply to all other brake issues.

LABOR ALLOWANCES

- Air Controls ........................................ 16
- Air Reservoir ....................................... 16
- Air Springs ........................................ 16
- Alignment .......................................... 16
- Axle .................................................. 16
- Beam (Non-integrated trailer axle) .......... 17
- Brakes, ADB ........................................ 17
- Brakes, Drum ....................................... 18
- Bushings ............................................ 19
- Center Lift ......................................... 19
- CONNEX™ ST .......................................... 19
- Frame Brackets .................................... 19
- HTRAAX ............................................... 19
- Pivot Bolts ........................................ 20
- QUIK-DRAW® ......................................... 20
- Shocks ............................................... 20
- Slider Box .......................................... 20
- SURELOK® ........................................... 21
- Tire Inflation Systems ............................ 21
- UBL™ UNDER BEAM LIFT™ ......................... 22
- Wheel-end ........................................... 22

The standard repair times (labor allowances) listed here include, but are not limited to, the parts in the itemized description. It may be necessary to remove and install additional parts not included in the basic descriptions in order to complete the warranty repair.

Detailed repair descriptions must be included with the submitted warranty claim.

If a warranty claim is submitted with a repair time in excess of the following labor allowances, a detailed description explaining the reason for the excess is required.

The following labor allowances have been based upon work conducted by various repair facilities utilizing approved Hendrickson procedures and include technician set-up time, diagnostic time and consideration of applicable supervisory/administration requirements. CONTACT HENDRICKSON to request approval for additional time, if necessary.

Refer to the HENDRICKSON SUSPENSION/AXLE TYPES on page 23 for an explanation of the abbreviations (e.g., HKA, UTK, AAZ, etc.) used in the following labor allowances.
## COMPONENT DESCRIPTION | HOURS
---|---
**AIR CONTROLS**
- Air control kit, with enclosure | 1.0
- Air gauge | 0.5
- Air pilot valve | 1.0
- Axle vent | 0.7
- Brake protection valve | 1.0
- Dial-a-ride | 1.0
- Flipper valve | 1.0
- Hand control valve | 1.0
- Height control valve | 1.0
  *Includes:*
  - Removal and installation of:
    - Height control valve linkage
    - Ride height adjustment
- Height control valve linkage | 0.5
- Lift control valve/kit | 1.0
- Load Scale/Kit | 1.0
- Manual exhaust valve | 1.0
- Pressure protection valve | 1.0
- Quick release valve | 1.0
- Solenoid valve | 1.0

**AIR RESERVOIR**
- Air reservoir | 1.0

**AIR SPRINGS**
- Air spring/piston
  - Each air spring (up to three) | 1.0
  - Each additional air spring | 0.5
- Air spring pedestal (bolt-on)
  - INTRAAX®, VANTRAAX®, ULTRA-K® | 0.5
  *Includes:*
  - Removal and installation of:
    - Air spring lower mounting nut
    - Pedestal mounting hardware
    - Tighten all fasteners to torque
- Air spring pedestal (weld-on)
  - INTRAAX | 1.0
  *Includes:*
  - Removal and installation of:
    - Air spring lower mounting nut
    - Pedestal mounting welds

### ALIGNMENT

**Axle alignment**
- Non-steer dual axles with QUIK-ALIGN® | 1.0
  - Each additional axle | 0.5
  *Includes:*
  - Removal and replacement of:
    - QUIK-ALIGN pivot connection hardware
- Non-steer dual axles with welded collars | 1.5
  - Each additional axle | 0.8
  *Includes:*
  - Removal and replacement of:
    - Pivot connection hardware
- CONNEX™ ST (CXSL steer axle) | 1.5
  *Includes*
  - Toe adjustment
  - Removal and replacement of:
    - Pivot connection hardware
  - Toe adjustment only | 0.5

**AXLE**

**NON-INTEGRATED TRAILER AXLE**
(e.g. TRLAXLE®, HCA® AXLE ONLY)
- Welded attachment | 9.5
- U-bolt attachment | 5.5
  *Includes:*
  - Removal and replacement of:
    - Pivot connection hardware
    - Axle from beam
  - Redressing (grinding) axle seats
  - Axle alignment
  - Removal and installation of:
    - Tire/wheel assembly
    - Hubs and drums
    - Springs, air or mechanical
    - Shocks and shock mounting hardware
    - Height control valve, if equipped
    - ABS valves and sensor wiring
    - Brake chambers
    - Slack adjusters
    - S-cams
    - S-cam bearings
    - Brake shoes with linings and hardware, if required
- U-bolts (per axle seat)
  - One U-bolt | 0.8
  - Both | 1.4
## COMPONENT DESCRIPTION | HOURS
--- | ---
INTEGRATED AXLE (HALFTRAAX™)
HTRAAX (axle/beam weldment) | 6.0
**Exception:**
- Auto hauler | 12.5
- Lowboy / Double drop | 10.0
- With ADB | 8.0
**Includes:**
- Removal and replacement of:
  - Pivot connection hardware
- Axle alignment
- Removal and installation of:
  - Tire/wheel assembly
  - Hubs
  - Air springs
  - Shocks and shock mounting hardware
  - Height control valve
  - ABS valves and sensor wiring
  - Caliper for ADB
  - Drum Brakes (all that apply)
    - Drums
    - Brake chambers
    - Slack adjusters
    - S-cams
    - S-cam bearings
    - Brake shoes with linings and hardware

UNITIZED (AXLE/BEAM WELDMENT)
CONNEX™, CONNEX ST HTRAAX | 6.0
**Exception:**
- Auto hauler | 12.5
- Lowboy / Double drop | 10.0
- With ADB | 8.0
**Includes:**
- Removal and replacement of:
  - Pivot connection hardware
- Axle alignment
- Removal and installation of:
  - Tire/wheel assembly
  - Hubs
  - Air springs
  - Shocks and shock mounting hardware
  - Height control valve
  - ABS valves and sensor wiring
  - Caliper for ADB
  - Drum Brakes (all that apply)
    - Drums
    - Brake chambers
    - Slack adjusters
    - S-cams
    - S-cam bearings
    - Brake shoes with linings and hardware

## COMPONENT DESCRIPTION | HOURS
--- | ---
**BEAM (NON-INTEGRATED TRAILER AXLE)**
Beam and axle seat assembly for
- HT (beam only) | 4.0
- Y-beam (beam only) 1 beam | 7.5
- Y-beam (beam only) 2 beams | 14.0
- T suspensions | 4.0
**BRAKES, ADB**
- Brake chamber | 0.5
- Brake dust shield, clamp (with wide base tires)
  - 1 wheel-end | 0.3
  - 2 wheel-ends | 0.5
  - 3 wheel-ends | 0.8
  - 4 wheel-ends | 1.0
**NOTE:** Does not require wheel removal.
- Caliper | 2.1
  **Includes:**
  - Removal and installation of:
    - Tire/wheel assembly
- Pads (with linings, per axle)
  **INTRAAX®, VANTRAAX®, ULTRAA-K®** | 1.0
  **TRLAXLE®, B2AHT, CONNEX, CONNEX ST** | 1.0
  **Includes:**
  - Removal and installation of:
    - Tire/wheel assembly
  - Removal and replacement of:
    - ADB brake pad with lining
  - Brake adjustment
**NOTE:** Does not require caliper, hub or rotor removal.
- Rotor | 3.0
  **Includes:**
  - Removal and installation of:
    - Tire/wheel assembly
    - Caliper assembly
    - Hub
- Tighten caliper mounting screws to specified torque
  (per trailer, 6 screws for ea. of 4 wheel-ends) | 0.8
**COMPONENT DESCRIPTION** | **HOURS**
--- | ---
**BRAKES, DRUM**
Brake camshaft (requires hub removal)
- CONNEX™ ST (with Hendrickson cam tube) | 3.0
- INTRAAX® models “A”, “B” (prior to 5/2001) | 3.0
- TRLAXLE® (no cam tube) | 3.5
- TRLAXLE (with Hendrickson cam tube) | 4.0

Includes:
- Removal and replacement of:
  - S-cam bushings replacement (no cam tube)
  - Cam tube (if equipped)
- Removal and installation of:
  - Tire/wheel assembly
  - Slack adjuster
  - Hub and drum
- Brake adjustment

Brake camshaft (does not require hub removal)
- INTRAAX (with Hendrickson cam tube) | 1.6
- INTRAAX model “C” (No cam tube) | 1.6
  (prior to 5/2001)

Includes:
- Removal and replacement of:
  - S-cam bushings replacement (no cam tube)
  - Cam tube (if equipped)
- Removal and installation of:
  - Tire/wheel assembly
  - Brake drum
  - Slack adjuster
- Brake adjustment

Brake cam tube assembly
(Does not require tire/wheel, drum, hub or S-cam removal.)
- INTRAAX, ULTRAA-K® or VANTRAAX® | 0.8
- TRLAXLE | 1.0

Includes:
- Removal and installation of slack adjuster
- Brake adjustment

Additional labor time is required for:
- Weld according to procedure | 0.3

---

**COMPONENT DESCRIPTION** | **HOURS**
--- | ---
Brake chamber | 0.8
Brake Chamber Bracket (BCB) | 1.8

Includes:
- Remove and replace (weld attachment):
  - Weld prep
  - Position
  - Weld
- Removal and installation of:
  - Brake chamber and hoses
- Check slack adjuster stroke adjustment

BCB Reinforcement (per BCB)
- AAL | 1.0
- AANT | 1.0
- TRLAXLE equipped with 12.25” brake | 1.0

Includes:
- Reinforcement plates added per BCB, per Hendrickson provided instruction

Brake drum (outboard) | 0.5

Includes:
- Removal and installation of:
  - Tire/wheel assembly
- Brake adjustment

Brake dust shield (clamp and bolt-on)
- Each (up to two) | 0.5
- Each additional | 0.25

Brake hose (relay valve to brake chamber) | 0.5

Brake shoes with linings (per axle)
- INTRAAX, VANTRAAX, ULTRAA-K | 2.5
  (Does not require hub removal.)
- TRLAXLE | 2.5

Includes:
- Removal and installation of:
  - Tire/wheel assembly
  - Drum
  - Hub (Inboard mounted drum only)
- Removal and replacement of:
  - Brake shoe with lining
- Brake adjustment

1 Includes CONNEX or B2AHT factory assembly.
### Comprehensive Warranty Statement USA and Canada

#### S-cam Bushing Kit

- **Component**: S-cam bushing kit (each)
- **HOURS**: 1.6
- **Applies to**: Hendrickson axles without cam tube
- **Includes**:
  - Removal and installation of:
    - Tire/wheel assembly
    - Drum
    - Brake shoes with lining
    - Hub
    - S-cam
  - Brake adjustment

**Additional labor time is required for**:
- Hub removal (refer to hub hours)

#### S-cam Support Bracket

- **Component**: S-cam support bracket (each)
- **HOURS**: 3.0
- **Applies to**: Hendrickson axles without cam tube
- **Includes**:
  - Remove and replace (weld attachment):
    - Weld prep
    - Position
    - Weld
  - Removal and replacement of:
    - S-cam support bracket assembly
  - Removal and installation of:
    - Tire/wheel assembly
    - Hub and drum
    - Slack adjuster
    - Air chamber
    - S-cam
  - Brake adjustment

#### Slack Adjuster

- **Component**: Slack adjuster
- **HOURS**: 0.7
- **Includes**:
  - Troubleshooting

### Bushings

#### Bushing Tube Spacers

- **Component**: Bushing tube spacers (per axle)
- **HOURS**: 1.5
- **Equipped with UBL™**: 2.0
- **Equipped with UBL (Bolt-on front plate)**: 2.5
- **Includes**:
  - Removal and replacement of:
    - Bushing tube spacers
    - Pivot connection hardware
  - Axle alignment

#### TRI-FUNCTIONAL® Bushings

- **Component**: TRI-FUNCTIONAL® Bushings (per axle)
- **HOURS**: 4.0
- **Equipped with UBL**: 4.5
- **Includes**:
  - Removal and replacement of:
    - TRI-FUNCTIONAL Bushings
    - Bushing tube spacers
    - Pivot connection hardware
  - Axle alignment

### Frame Brackets

#### Frame Bracket (Bolt-on)

- **Component**: Frame bracket (bolt-on)
- **HOURS**: 3.0
- **Includes**:
  - Removal and replacement of:
    - Pivot connection hardware
  - Axle alignment

#### Frame Bracket (Welded)

- **Component**: Frame bracket (welded)
- **HOURS**: 4.0
- **Includes**:
  - Removal and replacement of:
    - Pivot connection hardware
  - Axle alignment

### HTraax

(See INTEGRATED AXLE (HALFTRAAX™) on page 17)
### COMPONENT DESCRIPTION

<table>
<thead>
<tr>
<th>PIVOT BOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pivot connection hardware (per axle)</td>
</tr>
<tr>
<td><strong>Includes:</strong></td>
</tr>
<tr>
<td>• Removal and replacement of:</td>
</tr>
<tr>
<td>– Existing pivot connection hardware</td>
</tr>
<tr>
<td>• Axle alignment</td>
</tr>
</tbody>
</table>

### QUIK-DRAW®

| QUIK-DRAW control valve | 1.0 |
| QUIK-DRAW control valve knob | 0.2 |
| QUIK-DRAW linear actuator (HK/HKA/UTK models): |
| Front | 0.5 |
| Rear | 0.8 |
| QUIK-DRAW air chamber actuator (AAZ models) | 0.8 |
| QUIK-DRAW retrofit kit (HK/HKA/UTK models) | 2.0 |
| **Includes:** |
| • Removal of original pin-pull mechanism |

### SHOCKS

| Shock absorber | 0.5 |
| ZMD® Down stop | 0.5 |
| Shock bracket (upper): |
| Weld-on | 1.5 |
| Bolt-on | 1.0 |
| Shock mount (lower): |
| INTRAAX®, VANTRAAX®, ULTRAA-K®, HT250US | 1.3 |
| **Includes:** |
| • Removal and replacement of |
|   – Nut within beam |
| or |
| • Modification / repair per L635 |
| Shock strap | 0.5 |
| **Options:** |
| Rear-mount shock bracket (lower): |
| AAL, AAEDT and AAEDL | 1.0 |

### SLIDER BOX

| K-brace reinforcement plate installation | 3.0 |
| VANTRAAX HKAT 50K (HKA250) only: |
| quantity of four per slider |
| **Slider box replacement (HK/HKA/UTK models):** |
| Single (HKA models only) | 8.0 |
| Tandem | 12.0 |
| Tridem (HKA models only) | 16.0 |
| **Includes:** |
| • Removal and replacement of: |
|   – Pivot connection hardware |
| • Axle alignment |
| • Removal and installation of: |
|   – Tire/wheel assembly |
|   – Air springs |
|   – Shocks and shock mounting hardware |
|   – Air lines |
|   – One air reservoir and mounting brackets |
|   – Air valves |
|   – Suspensions |
|   – Brake lines |
|   – Brake valves |
|   – ABS valves and sensor wiring |
|   – Height control valve |
|   – QUIK-DRAW slider pin-pull mechanism |
|   – SURELOK® trailer ride height locking system |
| **Does not include:** |
| (Additional labor time is required for these items.) |
| • Additional air reservoirs and mounting brackets |
| • Binkley Quick Release pin-pull mechanism |
| • Tire inflation systems |

**Slider box replacement (AAZ models):**

| Single | 8.0 |
| Tandem | 12.0 |
| **Includes:** |
| • Removal and replacement of: |
|   – Pivot connection hardware |
| • Axle alignment |
| • Removal and installation of: |
|   – Tire/wheel assembly |
|   – Air springs |
|   – Shocks and shock mounting hardware |
|   – Air lines |
|   – One air reservoir and mounting brackets |
|   – Air valves |
|   – Suspensions |
|   – Brake lines |
|   – Brake valves |
|   – ABS valves and sensor wiring |
|   – Height control valve |
|   – QUIK-DRAW slider pin-pull mechanism |
| **Does not include:** |
| (Additional labor time is required for these items.) |
| • Additional air reservoirs and mounting brackets |
| • Tire inflation systems |

| Slider pin (up to four) | 1.5 |
| Slider pin springs (all four) | 1.5 |
| Slider box wear pad, upper (pair) | 3.0 |
### COMPONENT DESCRIPTION | HOURS
--- | ---
Slider box weld repair  
- Cross member or K-brace to side rail; (up to four welds)  
- Air spring top shim half plate to bottom of K-brace  | 1.0  
Includes:  
- Removal and installation of:  
  - Air spring | 1.3
SURELOK®  
SURELOK return spring  | 0.2  
SURELOK actuator  | 0.5  
SURELOK restraint bolt  | 0.5  
Includes:  
- Adjustment and system check | 1.0  
SURELOK ride height lock assembly  | 1.0  
Includes:  
- Adjustment and system check | 1.0
SURELOK retrofit kit (HK/HKA/UTK models)  
- Bolt-on beam extensions  | 2.0  
- Weld-on beam extensions  | 3.0
TIRE INFLATION SYSTEMS
TIREMAAX®  
TIREMAAX kit complete installation  
- TIREMAAX Prepped Hendrickson axle  | 6.0  
- Non-TIREMAAX prepped Hendrickson axle  | 12.0  
Each additional axle  
- TIREMAAX Prepped Hendrickson axle  | 1.0  
- Non-TIREMAAX prepped Hendrickson axle  | 2.0
TIREMAAX axle hose  | 1.2  
Includes:  
- Removal and Replacement  
  - Internal axle hose  
  - Slack adjuster | 1.2
TIREMAAX controller assembly (All models)  | 1.0  
TIREMAAX EC target pressure programming  
using the hand-held programming device (does not require controller assembly removal)  | 0.2  
TIREMAAX PRO & CP adjust target pressure  | 0.5  
TIREMAAX indicator lamp (All models)  | 0.5  
TIREMAAX ABS junction harness (All models)  | 1.0

---

**SURELOK®**

**SURELOK return spring** | 0.2  
**SURELOK actuator** | 0.5  
**SURELOK restraint bolt** | 0.5  
**SURELOK ride height lock assembly** | 1.0  
**SURELOK retrofit kit (HK/HKA/UTK models)**  
- Bolt-on beam extensions | 2.0  
- Weld-on beam extensions | 3.0

---

**TIREMAAX®**

**TIREMAAX kit complete installation**  
- TIREMAAX Prepped Hendrickson axle | 6.0  
- Non-TIREMAAX prepped Hendrickson axle | 12.0  
Each additional axle  
- TIREMAAX Prepped Hendrickson axle | 1.0  
- Non-TIREMAAX prepped Hendrickson axle | 2.0

---

**TIREMAAX axle hose** | 1.2  
**TIREMAAX controller assembly (All models)** | 1.0  
**TIREMAAX EC target pressure programming**  
using the hand-held programming device (does not require controller assembly removal) | 0.2  
**TIREMAAX PRO & CP adjust target pressure** | 0.5  
**TIREMAAX indicator lamp (All models)** | 0.5  
**TIREMAAX ABS junction harness (All models)** | 1.0

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1. After March 2012, the rotary union was mounted in the hubcap and a tee fitting was not included.
### COMPONENT DESCRIPTION | HOURS
---|---
**UBL™ UNDER BEAM LIFT™**
UBL air spring (each) | 1.0
UBL kit | 4.5
Complete installation (per axle) | 1.0
UBL bracket removal and installation | 1.7
Frame bracket attachment (each) | 1.0
Beam attachment - welded (each) | 1.0

### WHEEL-END
ABS wheel sensor (one) | 1.0
**Includes:**
- Removal and installation of:
  - Tire/wheel assembly
  - Brake drum

ABS wheel sensor bracket (one) | 0.6

Additional labor time may be required for these items:
- Hub removal (refer to hub hours)

Adjust ABS wheel sensors | 0.5
(without dust shields, up to four sensors)

Axle filter | 1.0
(Tire/wheel removal not required)
**Includes:**
- Removal and installation of:
  - Hubcap - replace gasket
  - Spindle end plug - replace

Hub, drum brake | 1.4
(Removal and Replacement)

**Includes:**
- Removal and installation of:
  - Tire/wheel assembly
  - Brake drum

Additional labor time is required for these items:
- Air disc brake, remove and install | 1.7
- ABS wheel sensor bracket, replace | 0.6

Hubcap/gasket | 0.5
(tire/wheel removal not required)
- Up to a quantity of two | 0.5
- Each additional hubcap/gasket | 0.25

---

### COMPONENT DESCRIPTION | HOURS
**Includes:**
- Removal and installation of:
  - Caliper Assembly
  - Torque caliper to carrier bolts

Additional labor time is required for these items:
- Bearing cone and cup (in hub) replacement (inner, outer or both) | 0.9
- ABS wheel sensor bracket | 0.6
- Lube saturated brake shoes | 0.5

WEM (Wheel-end Monitor) replacement (each) | 0.2
Wheel-end Play (each wheel-end) | 1.0

Adjustment and lube (if necessary)

**Includes:**
- Removal and installation of:
  - Tire/wheel assembly
  - Hubcap

Wheel studs (up to three) | 1.7
- More than three (one hub) | 2.2
APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES

The suspension type abbreviations used in the COVERAGE TABLES on page 8 through page 11 are defined as follows:

SLIDER SUSPENSION SYSTEMS

AAZ INTRAAX®-SP Integrated Air Slider Suspension System is a Hendrickson integrated axle/beam weldment mounted on a Hendrickson Z-rail platform slider. In cases where warranty coverage or components differ for a certain AAZ model, the specific model will be noted by one of the following descriptions: AAZNT, AAZL.

HK HT™ suspensions on K-2 slider box

HKA VANTRAAX® Integrated Air Slider Suspension Systems equipped with INTRAAX axle/beam weldments on a K-2® slider box. In cases where warranty coverage or components differ for a certain VANTRAAX model, the specific model will be noted by one of the following descriptions: HKAINT, HKAT, HKAL, HKARL.

HS HT suspensions on HS slider box

HTZ Any HT suspension on a Z-rail platform slider. In cases where warranty coverage or components differ for a certain HTZ model, the specific model will be noted by a similar description to the following: HTZUS.3.

RS Sliding trailing arm suspension, manufactured by the Dana Corporation prior to 2007. Last manufactured by Hendrickson 2008.

UTK All ULTRAA-K® Integrated Air Slider Suspension Systems equipped with INTRAAX axle/beam weldments on a G-rail slider box. At the time of this publication, only UTKNT 40K model type applies.

PRIMARY FIXED AND LIFTABLE SUSPENSIONS

AA All INTRAAX primary suspensions. In cases where warranty coverage or components differ for a certain INTRAAX model, the specific model will be noted by one of the following descriptions: AANT, AAT, AAEDT, AANLS, AANL, AAL, AAEDL.

B2AHT Non-integrated beam-to-axle suspension system assembled by Hendrickson to include HT and TRLAXLE® components prior to 01/01/2017 production. See CXU.

CXSL CONNEX™ ST Self-Steer Suspension System assembled by Hendrickson.

CXU CONNEX™ Unitized Air Suspension System with Hendrickson HT suspension and TRLAXLE assembled by Hendrickson. Formally B2AHT.

CXY CONNEX™ Unitized Air Suspension System with Hendrickson HT Y-beam suspension and TRLAXLE assembled by Hendrickson.

HT HT™ Series primary suspensions

RF Fixed trailing arm suspension, manufactured by the Dana Corporation prior to 2007. Last manufactured by Hendrickson 2008.

T T Series primary suspensions.

AXLES

HCA® Hendrickson Chassis Axle.

INTRAAX Integrated trailer axle as a component of an INTRAAX suspension.

TRLAXLE® Non-integrated trailer axle only, includes brackets.
APPENDIX B: TRAILER APPLICATIONS

ON-HIGHWAY
(Dry freight or refrigerated van trailer moving different types of freight, include city delivery).
- Operation on road surfaces of good to excellent concrete or asphalt.
- Generally distances are more than 30 miles between starting and stopping. - LineHaul.
- Pick up and delivery service within cities and/or suburban areas. – city delivery.
- Three (3) miles between starts/stops (typical). – City Delivery.
- 100% load going /40% or more load return (typical).

VOCATIONAL
- Movement of material to and from a job site.
- Movement of production related products, supplies and tools between job sites.
- Movement of processing equipment and laboratories on job sites.
- Movement of petroleum or liquid product, gases, to processing, delivery or fueling sites.
- Movement of wood chips between mills or other facilities.
- Movement of rock, ore, gravel and minerals between mine sites and delivery sites.
- Movement of heavy equipment or materials at legal maximums or special permit loadings.
- Vehicles used for residential refuse / recycle pickup.
- Vehicles operated in commercial / industrial pickup.
- Vehicles used in transfer / relocation on a maximum grade of 8%, typically greater than 10 miles per trip.
- 90% of operation time on road surfaces of concrete or asphalt and up to (less than) 10% of operation time on maintained gravel, crushed rock, hard packed dirt, landfill or into sandy or muddy job sites. Vehicles operating less than 90%, refer to Off-Highway.
- 100% load going and typical empty return.
- Maximum grades of 12%.

OFF-HIGHWAY
- Movement of heavy equipment, rock, ore, gravel and minerals at and between mine sites and property development delivery sites.
- Movement of farm produce or feed on farm properties.
- Movement of raw petroleum products; i.e.: oil field applications.
- Movement of logs, wood chips and wood pulp between logging sites and / or mills.
- Vehicles operating in ice road environments.
- Vehicles used for refuse / recycle landfill operations.
- Operation exceeding 10% of the time on maintained gravel, crushed rock, hard packed dirt, landfill, ice roads, unimproved surfaces such as loose dirt, mud and sand.

For application requirements, refer to Hendrickson literature number L707 Hendrickson Application Guide online at www.hendrickson-intl.com/TrailerLit.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

Call Hendrickson at 866.RIDEAIR (743.3247) for additional information.