

H WARRANTY **HENDRICKSON TRAILER COMMERCIAL VEHICLE SYSTEMS**

SUBJECT: Comprehensive Warranty Statement
USA and Canada

LIT NO: L583

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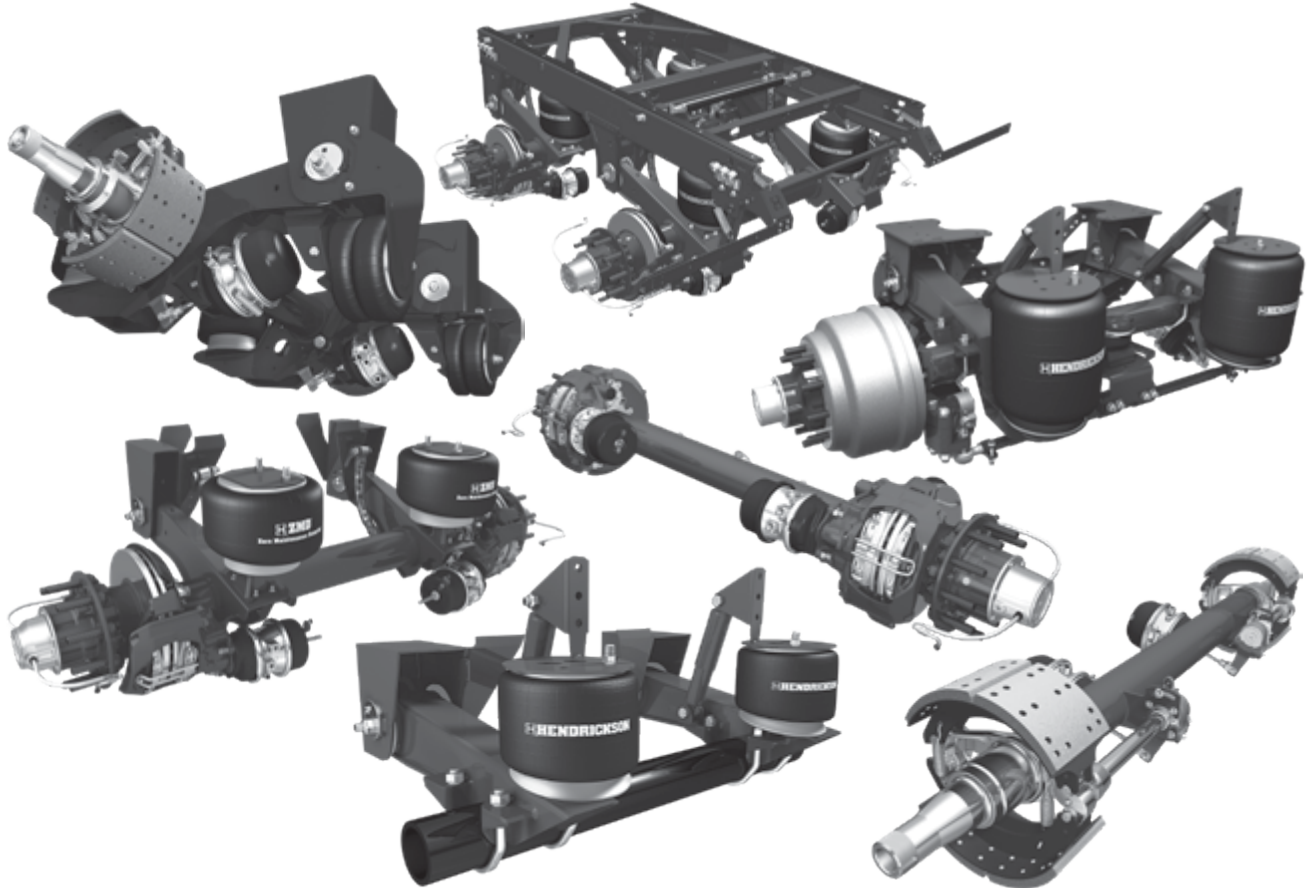


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Hendrickson Trailer Commercial Vehicle Systems (Hendrickson) warrants that all trailer suspensions listed on the following pages shall be free of defects in material or workmanship, from original date of service. This warranty coverage only applies 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 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 were 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 the 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.

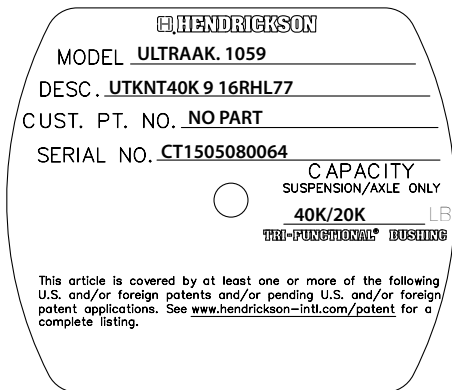
Any warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the expressed warranty term provided in the warranty **COVERAGE TABLES** on page 5 through page 11.

IDENTIFICATION (ID) TAGS

Each Hendrickson suspension and TRLAXLE® Non-integrated Trailer Axle includes an attached ID tag (Figure 1 and Figure 2). For more details and identification tag locations, refer to Hendrickson literature number

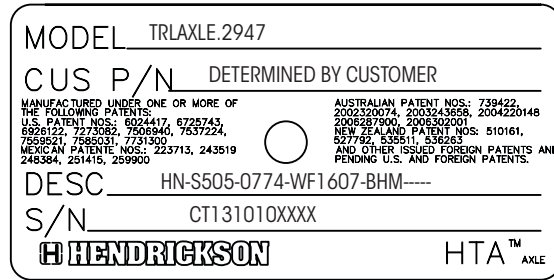
L977 *Identification Guide* at

www.Hendrickson-intl.com/TrailerLit.



For sliders, located roadside front, on slider rail above frame bracket or on frame bracket. For HT™ Series Suspensions and INTRAAX® Integrated Air Suspension Systems, located inward side of either curbside or roadside suspension beam.

Figure 1: Sample suspension identification tag



Located on leg of (air) brake chamber bracket, either on outboard or inboard side.

Figure 2: Sample TRLAXLE® Non-integrated Trailer Axle identification tag

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/wcs>

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 INFORMATION¹

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 date²
 - 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.

¹ The information details listed apply to Hendrickson Trailer Suspension Systems and related components. Trailer information is required to understand suspension application and coordination with trailer manufacturers.

² If the in-service date is unknown or not available, the vehicle date of manufacture will be substituted.



COVERAGE TABLES * (CONTINUED)

ITEM DESCRIPTION	SUSPENSION TYPE **	PARTS	LABOR	COMMENTS (RESTRICTIONS ETC.)
SLIDER SUSPENSION SYSTEMS				
ULTRAA-K® SLIDER SUSPENSION SYSTEMS				
Slider Box Assembly	UTKNT 40K	5 years	5 years	Includes slider weldments, slider pins, pin return springs and related hardware. Does not include slider wear pads.
ZMD® Air Spring	UTKNT 40K	3 years	3 years	Includes patented ZMD® down stops.
Pivoting Mud Flap Bracket Assembly	UTKNT 40K	3 years	1 year	
ULTRAA-K SLIDER STRUCTURAL CORROSION WARRANTY ²⁰				
Slider Box Weldment	UTKNT 40K	10 years	5 years	Includes slider box weldments equipped with Hendrickson-applied hot dip wax coating only.
ALL SLIDER SUSPENSION SYSTEMS				
Slider Box Assembly	All, except AAZ and UTKNT	5 years	1 year	Includes slider weldments, slider pins, pin return springs and related hardware. Does not include the slider wear pad.
	AAZ			Slider pins, pin return springs and related hardware coverage: Parts - 1 year, Labor - 1 year.
ZMD® Air Spring	All	3 years	3 years	Includes patented ZMD® down stops.
Air Spring	All	2 years	1 year	
SLIDER SUSPENSION AND AXLE ¹ COMPONENTS - ALL				
Integrated Trailing Arm-to-Axle Connection	AA, AAZ, HKA, UTK	10 years	5 years	
Integrated Axle / Trailing Arm Assembly ²	HKANT 40K, HKANT 46K, UTKNT 40K	10 years	5 years	49" Closed-Space van applications ⁶
Integrated Axle / Trailing Arm Assembly ²	AA, AAZ, HKA, RS	5 years	1 year	
Frame Bracket (Hanger)	All	5 years	1 year	
Trailing Arm (Beam)	HT, T	5 years	1 year	
Shock Absorber	All	2 years	2 years	
QUIK-ALIGN® Pivot Assembly	All	1 year	1 year	For non pre-aligned systems, proper trailer OEM installation is required. ⁴
QUIK-DRAW® Air Actuator	HK, HKA, UTK, AAZ	3 years	3 years	
NARROW TRI-FUNCTIONAL III BUSHINGS AND BUSHING TUBE SPACERS				
Van 49" Closed-Space Tandem Applications ⁶	HKANT 40K, HKANT 46K, UTKNT 40K	7 years	7 years	Refer to BUSHINGS for other bushing types and coverage.
Wide-Spread Van and Lifiable Axle ⁷	AAZL, AAZNT, HK, HKANT, HKANL, HKAT	5 years	3 years	
WIDE TRI-FUNCTIONAL II BUSHINGS AND BUSHING TUBE SPACERS				
Van 49" Closed-Spaced Tandem Applications ⁶	HKAT, HKAL, HKARL	7 years	5 years	

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

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COVERAGE TABLES * (CONTINUED)

ITEM DESCRIPTION	SUSPENSION TYPE **	PARTS	LABOR	COMMENTS (RESTRICTIONS ETC.)
PRIMARY FIXED AND LIFTABLE SUSPENSIONS				
SUSPENSION AND AXLE¹ COMPONENTS				
Integrated Axle / Trailing Arm Assembly²	AA	5 years	1 year	For OFF-HIGHWAY applications³: Parts - 3 years, Labor - 1 year For intermodal chassis applications, refer to page 15.
	AAEDT, AAEDL	5 years	1 year	
Integrated Trailing Arm-to-Axle Connection	AA	10 years	5 years	For OFF-HIGHWAY applications³: Parts - 3 years, Labor - 1 year For intermodal chassis applications, refer to page 15.
	AAEDT, AAEDL	10 years	5 years	
Trailing-Arm-to-Axle Connection	CSU, CXY	5 years	1 year	
Trailing Arm (Beam)	B2AHT, CXSL, CXU, CXY, HT, T	5 years	1 year	For OFF-HIGHWAY applications³: Parts - 3 years, Labor - 1 year
Frame Brackets (Hangers)	All Except AAEDT, AAEDL	5 years	1 year	For OFF-HIGHWAY applications³: Parts - 3 years, Labor - 1 year
	AAEDT, AAEDL	5 years	1 year	
ZMD[®] Air Spring	All INTRAAX [®]	3 years	3 years	Includes patented ZMD [®] down stops.
Air Spring	All	2 years	1 year	
Shock Absorber	All	2 years	2 years	
QUIK-ALIGN Pivot Assembly	All	1 year	1 year	Proper trailer OEM installation is required ⁴
STEER SUSPENSION SYSTEMS (For common components, refer to applicable warranty coverage)				
Trailing-Arm-to-Axle Connection	CXSL	5 years	1 year	
Steer Axle Knuckle Assembly	CXSL	3 years	1 year	
Kingpin, Kingpin Bushings, Tie Rod, Center Lock Assembly	CXSL	1 year	1 year	Includes centering actuator and chamber
BUSHINGS				
WIDE TRI-FUNCTIONAL II BUSHINGS AND BUSHING TUBE SPACERS				
Vocational, Wide-Spread Van and/or Liffable Axle⁷	AAL, AAT, B2AHT, CXSL, CXU, CXY, HT,	5 years	3 years	For OFF-HIGHWAY applications³: Parts - 3 years, Labor - 1 year
	AAEDT, AAEDL	5 years	3 years	
NARROW TRI-FUNCTIONAL III BUSHINGS AND BUSHING TUBE SPACERS				
Vocational, Wide-Spread Van and Liffable Axle⁷	AANT, AANL, AANLS, AAZNT	5 years	3 years	
AXLES¹ (TRLAXLE[®])				
Axle, Trailer (non-integrated, includes brackets)	Axle only	5 years	1 year	Includes intermodal chassis. Warranty void when brake camshaft rotation is opposite of wheel rotation.
For integrated axles, see SLIDER SUSPENSION SYSTEMS or PRIMARY FIXED AND LIFTABLE SUSPENSIONS				

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

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COVERAGE TABLES * (CONTINUED)

ITEM DESCRIPTION	SUSPENSION TYPE **	PARTS	LABOR	COMMENTS (RESTRICTIONS ETC.)
AFTERMARKET PARTS				
Genuine Hendrickson Replacement Parts (not installed as part of a warranty repair)	All	1 year	N/A	Requires original purchase or installation invoice.
MAXILOK® TRAILER SUPPORT SYSTEM				
Mechanical Components	HT250U, HT200UM	3 years	1 year	
ALL OTHER SUSPENSION AND SLIDER COMPONENTS ⁵				
Suspension and Slider Components	All	1 year	1 year	Includes slider wear pads (upper) and all other mechanical pin release / activation components.
EXPORT (OUTSIDE USA AND CANADA)				
Suspension Components	All	1 year	N/A	
BRAKES ¹⁹				
ABS Sensor	All	1 year ⁸	1 year	
Dust Shield	All	1 year	1 year	
DRUM BRAKE COMPONENTS - HENDRICKSON INSTALLED				
Brake Linings and All Brake related Hardware	All	1 year	1 year	Excludes all normal wear. Warranty void when brake camshaft rotation is opposite of wheel rotation. Includes corrosion of shoe table.
AAXTREME COAT® Brake Coating	All	3 years	3 years	
Brake Camshaft	All	3 years	1 year	Excludes brake camshaft wear.
Cam Tube (Off-Highway Applications)	All	3 years	1 year	
Cam Tube (On-Highway Applications)	All	3 years	3 years	
Automatic Slack Adjuster	All	1 year ⁸	1 year	For OFF-HIGHWAY applications³: 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).
Brake Chamber	All	1 year ⁸	1 year	
Brake Drum (cast) — Not Overheated	All	1 year	1 year	
Brake Drums (Motor Wheel CentriFuse®)	All	1 year	N/A	
HENDRICKSON AIR DISC BRAKE (ADB) SYSTEMS				
Hendrickson MAXX22T™	All	5 years ²¹	1 year	For ON-HIGHWAY applications³: Includes all brake related hardware, caliper, rotor and brake chamber. Excludes all normal wear.
		1 year ²¹	1 year	For OFF-HIGHWAY applications³: Includes all brake related hardware, caliper, rotor and brake chamber. Excludes all normal wear.

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

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COVERAGE TABLES * (CONTINUED)

ITEM DESCRIPTION		SUSPENSION TYPE **	PARTS	LABOR	COMMENTS (RESTRICTIONS ETC.)
OTHER AIR DISC BRAKE (ADB) SYSTEMS/COMPONENTS					
Brake Pads and All Brake Related Hardware		All	1 year ⁸	1 year	Coverage limited to components sold and installed by Hendrickson.
Caliper		All	1 year ⁸	1 year	Excludes all normal wear. Bendix® ADB not approved in Dolly application.
Rotor		All	1 year ⁸	1 year	Includes all brake related hardware, caliper, rotor and brake chamber.
Brake Chamber ²¹		All	1 year ⁸	1 year	
HENDRICKSON WHEEL-END PACKAGES ^{15, 22}					
Extended Service Hub Assembly	HXL3^{® 10}	All	3 years	3 years	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.
	HXL5^{® 11}	All	5 years	5 years	
	HXL7^{® 13}	All	7 years	7 years	
Standard Service Hub Assembly		Trailer - All	1 year	1 year	Coverage limited to components sold and installed by Hendrickson.
OTHER WHEEL-END PACKAGES					
ConMet PreSet[®]		Trailer - All	5 years	5 years	Coverage limited to components sold and installed by Hendrickson. ConMet will administer their published warranty coverage direct with the customer. www.ConMet.com
OPTIONS					
SURELOK[®] TRAILER RIDE HEIGHT LOCK					
Mechanical Components (Factory Installed Only)		HK, HKA, UTK, AANT	3 years	1 year	
Air Actuator (Factory Installed Only)		HK, HKA, UTK, AANT	1 year	1 year	
Retrofit Kits (Not Factory Installed Components)		HK, HKA, AANT, UTK	1 year	1 year	Requires verification of kit number and includes retrofit air control kit.
LIFT AXLE SYSTEMS (UBL™ Under Beam Lift™ and all others)					
All Components		All applicable	1 year	1 year	Proper OEM installation required.

* 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)

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

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

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COVERAGE TABLES * (CONTINUED)

ITEM DESCRIPTION	SUSPENSION TYPE **	PARTS	LABOR	COMMENTS (RESTRICTIONS ETC.)
TIREMAAX® EC AND CP TIRE INFLATION SYSTEMS				
(Applies to systems with spindle-mounted rotary union purchased on or before January 2012) ^{2, 14, 15, 16}				
HENDRICKSON-INSTALLED TIREMAAX WITH HENDRICKSON INSTALLED READY-TO-ROLL® WHEEL-ENDS:¹⁷				
Standard Service Hub Assembly	All	3 years	3 years	All internal TIREMAAX axle components installed and assembled by Hendrickson.
ConMet PreSet® Hub Assembly	All	5 years	3 years	The trailer OEM completes the installation of remaining purchased TIREMAAX components.
HLS™ (Hendrickson Long-life System) Hub Assembly²²	All	5 years	3 years	Warranty terms do not include competitor tire inflation system components.
HXL7® Hub Assembly²²	All	7 years	7 years	
HENDRICKSON-PREPARED TIREMAAX AXLES WITHOUT WHEEL-ENDS:¹⁷				
Axle Hose, Rotary Union and Hubcap	All	3 years	3 years ¹⁸	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.
TIREMAAX CONTROL COMPONENTS:				
Controller Assembly (EC and CP models)	All	3 years	3 years	
Wiring Harness	All	3 years	1 year	
TIREMAAX EXTERNAL WHEEL-END COMPONENTS:				
Tire Hoses and Tee Fitting	All	1 year	1 year	
TIREMAAX AFTERMARKET RETROFIT KIT:²				
All Kit Components	All	1 year	N/A	
COMPETITOR TIRE INFLATION SYSTEM ^{2, 14, 15}				
N/A	All	N/A	N/A	

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

** Refer to APPENDIX A: HENDRICKSON SUSPENSION/AXLE TYPES on page 23.

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COVERAGE TABLE ENDNOTES

Some text within the COVERAGE TABLES include superscript numbers which correspond to these numbered paragraphs (refer to 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 T51002 *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 Hendrickson suspension models when used in Trailer Applications (see Appendix B on page 24) in accordance with 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 reefer-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 auto hauler application). The warranty coverage for HXL7[®] hub assemblies in Off-Highway application is three years parts and labor. The HXL7 is not approved for auto hauler 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.



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 ULTRAA-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 ULTRAA-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 8). 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 HXL RTR® READY-TO-ROLL® 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.



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:

ITEM DESCRIPTION	TYPE ¹	PARTS	LABOR
Axle	INTRAAX	7 years	7 years
Rust Jacking ²		10 years	1 year
All other axle related components		1 year	1 year

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™ 21
- 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	COMPONENT DESCRIPTION	HOURS
AIR CONTROLS		ALIGNMENT	
Air control kit, with enclosure	1.0	Axle alignment	
Air gauge	0.5	Non-steer dual axles with QUIK-ALIGN®	1.0
Air pilot valve	1.0	Each additional axle	0.5
Axle vent	0.7	Includes:	
Brake protection valve	1.0	• Removal and replacement of:	
Dial-a-ride	1.0	– QUIK-ALIGN pivot connection hardware	
Flipper valve	1.0	Non-steer dual axles with welded collars)	1.5
Hand control valve	1.0	Each additional axle	0.8
Height control valve	1.0	Includes:	
Includes:		• Removal and replacement of:	
• Removal and installation of:		– Pivot connection hardware	
– Height control valve linkage		CONNEX™-ST (CXSL steer axle)	1.5
– Ride height adjustment		Includes	
Height control valve linkage	0.5	• Toe adjustment	
Lift control valve/kit	1.0	• Removal and replacement of:	
Load Scale/Kit	1.0	– Pivot connection hardware	
Manual exhaust valve	1.0	Toe adjustment only	0.5
Pressure protection valve	1.0	AXLE	
Quick release valve	1.0	NON-INTEGRATED TRAILER AXLE	
Solenoid valve	1.0	(e.g. TRLAXLE®, HCA® AXLE ONLY)	
AIR RESERVOIR		Welded attachment	9.5
Air reservoir	1.0	U-bolt attachment	5.5
AIR SPRINGS		Includes:	
Air spring/piston		• Removal and replacement of:	
Each air spring (up to three)	1.0	– Pivot connection hardware	
Each additional air spring	0.5	– Axle from beam	
Air spring pedestal (bolt-on)		• Redressing (grinding) axle seats	
INTRAAX®, VANTRAAX®, ULTRAA-K®	0.5	• Axle alignment	
Includes:		• Removal and installation of:	
• Removal and installation of:		– Tire/wheel assembly	
– Air spring lower mounting nut		– Hubs and drums	
– Pedestal mounting hardware		– Springs, air or mechanical	
– Tighten all fasteners to torque		– Shocks and shock mounting hardware	
Air spring pedestal (weld-on)		– Height control valve, if equipped	
INTRAAX	1.0	– ABS valves and sensor wiring	
Includes:		– Brake chambers	
• Removal and installation of:		– Slack adjusters	
– Air spring lower mounting nut		– S-cams	
– Pedestal mounting welds		– 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	COMPONENT DESCRIPTION	HOURS
INTEGRATED AXLE (HALFTRAAX™)		BEAM (NON-INTEGRATED TRAILER AXLE)	
HTRAAX (axle/beam weldment)	6.0	Beam and axle seat assembly for	
Exception:		HT (beam only)	4.0
Auto hauler	12.5	T suspensions	4.0
Lowboy / Double drop	10.0		
With ADB	8.0	BRAKES, ADB	
Includes:		Brake chamber	0.5
• Removal and replacement of:		Brake dust shield, clamp (with wide base tires)	
– Pivot connection hardware		1 wheel-end	0.3
• Axle alignment		2 wheel-ends	0.5
• Removal and installation of:		3 wheel-ends	0.8
– Tire/wheel assembly		4 wheel-ends	1.0
– Hubs		NOTE: Does not require wheel removal.	
– Air springs		Caliper	2.1
– Shocks and shock mounting hardware		Includes:	
– Height control valve		• Removal and installation of:	
– ABS valves and sensor wiring		– Tire/wheel assembly	
– Caliper for ADB		Pads (with linings, per axle)	
– Drum Brakes (all that apply)		INTRAAAX®, VANTRAAX®, ULTRAA-K®	1.0
» Drums		TRLAXLE®, B2AHT, CONNEX, CONNEX-ST	1.0
» Brake chambers		Includes:	
» Slack adjusters		• Removal and installation of:	
» S-cams		– Tire/wheel assembly	
» S-cam bearings		• Removal and replacement of:	
» Brake shoes with linings and hardware		– ADB brake pad with lining	
		• Brake adjustment	
UNITIZED (AXLE/BEAM WELDMENT)		NOTE: Does not require caliper, hub or rotor removal.	
CONNEX™, CONNEX-ST HTRAAX	6.0	Rotor	3.0
Exception:		Includes:	
Auto hauler	12.5	• Removal and installation of:	
Lowboy / Double drop	10.0	– Tire/wheel assembly	
With ADB	8.0	– Caliper assembly	
Includes:		– Hub	
• Removal and replacement of:		Tighten caliper mounting screws to specified torque	
– Pivot connection hardware		(per trailer, 6 screws for ea. of 4 wheel-ends)	0.8
• 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	COMPONENT DESCRIPTION	HOURS
BRAKES, DRUM			
Brake camshaft (requires hub removal)		Brake chamber	0.8
CONNEX™-ST (with Hendrickson cam tube)	3.0	Brake Chamber Bracket (BCB)	
INTRAAX® models "A", "B" (prior to 5/2001)	3.0	TRLAXLE (each)	1.8
TRLAXLE® (no cam tube)	3.5	Includes:	
TRLAXLE (with Hendrickson cam tube) ¹	4.0	• Remove and replace (weld attachment):	
Includes:		– Weld prep	
• Removal and replacement of:		– Position	
– S-cam bushings replacement (no cam tube)		– Weld	
– Cam tube (if equipped)		• Removal and installation of:	
• Removal and installation of:		– Brake chamber and hoses	
– Tire/wheel assembly		• Check slack adjuster stroke adjustment	
– Slack adjuster		BCB Reinforcement (per BCB)	
– Hub and drum		TRLAXLE equipped with 12.25" brake	1.0
• Brake adjustment		Includes:	
Brake camshaft (does not require hub removal)		• 2 reinforcements plates added per BCB, per Hendrickson provided instruction	
INTRAAX (with Hendrickson cam tube)	1.6	Brake drum (outboard)	0.5
INTRAAX model "C" (No cam tube)	1.6	Includes:	
(prior to 5/2001)		• Removal and installation of:	
Includes:		– Tire/wheel assembly	
• Removal and replacement of:		• Brake adjustment	
– S-cam bushings replacement (no cam tube)		Brake dust shield (clamp and bolt-on)	
– Cam tube (if equipped)		Each (up to two)	0.5
• Removal and installation of:		Each additional	0.25
– Tire/wheel assembly		Brake hose (relay valve to brake chamber)	0.5
– Brake drum		Brake shoes with linings (per axle)	
– Slack adjuster		INTRAAX, VANTRAAX, ULTRAA-K	2.5
• Brake adjustment		(Does not require hub removal.)	
Brake cam tube assembly		TRLAXLE	2.5
(Does not require tire/wheel, drum, hub or S-cam removal.)		Includes:	
INTRAAX, ULTRAA-K® or VANTRAAX®	0.8	• Removal and installation of:	
TRLAXLE	1.0	– Tire/wheel assembly	
Includes:		– Drum	
• Removal and installation of slack adjuster		– Hub (Inboard mounted drum only)	
• Brake adjustment		• Removal and replacement of:	
Additional labor time is required for:		– Brake shoe with lining	
• Weld according to procedure	0.3	• Brake adjustment	

¹ Includes CONNEX or B2AHT factory assembly.



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
S-cam bushing kit (each)	1.6	CENTER LIFT	
Applies to Hendrickson axles without cam tube		Center lift air spring	0.5
Includes:		CONNEX™-ST	
• Removal and installation of:		Lock-straight assembly	
– Tire/wheel assembly		Air actuator	0.5
– Drum		Lock-straight air chamber	0.5
– Brake shoes with lining		Arm assembly (each)	0.5
– Hub		Steering knuckle or kingpin (each)	4.0
– S-cam		Kingpin bushing kit	4.0
• Brake adjustment		NOTE: Steering Knuckle or Kingpin - same time (each) as kingpin bushing kit	
Additional labor time is required for:		Includes:	
• Hub removal (refer to hub hours)		• Removal and installation of:	
S-cam support bracket (each)	3.0	– Tire / wheel assembly	
Applies to Hendrickson axles without cam tube		– Brake components	
Includes		– Wheel-end components	
• Remove and replace (weld attachment):		– Wheel-cut stop bolts	
– Weld prep		– Kingpin	
– Position		Tie rod	1.5
– Weld		Includes:	
• Removal and replacement of:		• Removing and installation of:	
– S-cam support bracket assembly		– Locking clamps	
• Removal and installation of:		– Tie rod bracket	
– Tire/wheel assembly		• Align and tach weld tie rod washers (x2)	
– Hub and drum		• Toe adjustment:	
– Slack adjuster		Tie rod end (each)	0.8
– Air chamber		Tie rod end (both)	1.5
– S-cam		Includes:	
• Brake adjustment		• Removing and installation of:	
Slack adjuster	0.7	– Locking clamps	
Includes:		– Tie rod end	
• Troubleshooting		• Toe adjustment:	
BUSHINGS		FRAME BRACKETS	
Bushing tube spacers (per axle)	1.5	Frame bracket (bolt-on)	3.0
Equipped with UBL™	2.0	Includes:	
Equipped with UBL (Bolt-on front plate)	2.5	• Removal and replacement of:	
Includes:		– Pivot connection hardware	
• Removal and replacement of:		• Axle alignment	
– Bushing tube spacers		Frame bracket (welded)	4.0
– Pivot connection hardware		Includes:	
• Axle alignment		• Removal and replacement of	
TRI-FUNCTIONAL® Bushings (per axle)	4.0	– Pivot connection hardware	
Equipped with UBL	4.5	• Axle alignment	
Includes:		HTRAAX	
• Removal and replacement of:		(See INTEGRATED AXLE (HALFTRAAX™) on page 17)	
– TRI-FUNCTIONAL Bushings			
– Bushing tube spacers			
– Pivot connection hardware			
• Axle alignment			



COMPONENT DESCRIPTION	HOURS
PIVOT BOLTS	
Pivot connection hardware (per axle)	1.0
Includes:	
• Removal and replacement of:	
– Existing pivot connection hardware	
• Axle alignment	
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
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
ZMD® Chain Down stop	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

COMPONENT DESCRIPTION	HOURS
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	COMPONENT DESCRIPTION	HOURS
Slider box weld repair		TIREMAAX rotary union ¹	
Cross member or K-brace to side rail; (up to four welds)	1.0	Each	0.5
Air spring top shim half plate to bottom of K-brace	1.3	Includes:	
Includes:		• Removal and installation of:	
• Removal and installation of:		– Hubcap	
– Air spring		– Hubcap gasket	
SURELOK®		– Internal axle hose attachment	
SURELOK return spring	0.2	• For systems prior to April 2012:	
SURELOK actuator	0.5	– Spindle end plug, if required	
SURELOK restraint bolt	0.5	– OETIKER® hose clamp	
Includes:		TIREMAAX tee fitting 1	
• Adjustment and system check		Up to four (per trailer)	0.5
SURELOK ride height lock assembly	1.0	Each additional (same trailer)	0.2
Includes:		Includes:	
• Adjustment and system check		• Removal and installation of:	
SURELOK retrofit kit (HK/HKA/UTK models)		– Tee fitting guard (if present)	
Bolt-on beam extensions	2.0	TIREMAAX tire hoses (All models)	
Weld-on beam extensions	3.0	First wheel-end (one or two hoses)	0.3
TIRE INFLATION SYSTEMS		Each additional wheel-end (per trailer)	0.2
TIREMAAX®		Includes:	
TIREMAAX kit complete installation		• Removal and installation of:	
Tandem		– Tee fitting guard (if present)	
• TIREMAAX Prepped Hendrickson axle	6.0	Tire inflation system wiring harness	
• Non-TIREMAAX prepped Hendrickson axle	12.0	(HTIS and TIREMAAX EC and CP models)	
Each additional axle		Premium, ABS-ready harness	1.0
• TIREMAAX Prepped Hendrickson axle	1.0	Standard, 3-wire adapter plug	0.5
• Non-TIREMAAX prepped Hendrickson axle	2.0	UBL™ UNDER BEAM LIFT™	
TIREMAAX axle hose	1.2	UBL air spring (each)	1.0
Includes:		UBL kit	
• Removal and Replacement		Complete installation (per axle)	4.5
– Internal axle hose		UBL bracket removal and installation	
– Slack adjuster		Frame bracket attachment (each)	1.0
TIREMAAX controller assembly (All models)	1.0	Beam attachment - welded (each)	1.7
TIREMAAX EC target pressure programming	0.2		
using the hand-held programming device			
(does not require controller assembly removal)			
TIREMAAX PRO & CP adjust target pressure	0.5		
TIREMAAX indicator lamp (All models)	0.5		
TIREMAAX ABS junction harness (All models)	1.0		

¹ After March 2012, the rotary union was mounted in the hubcap and a tee fitting was not included.



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
WHEEL-END			
ABS wheel sensor (one)	1.0	Wheel-end Play (each wheel-end)	1.0
Includes:		Adjustment and lube (if necessary)	
• Removal and installation of:		Includes:	
– Tire/wheel assembly		• Removal and installation of:	
– Brake drum		– Tire/wheel assembly	
ABS wheel sensor bracket (one)	0.6	– Hubcap	
Additional labor time may be required for these items:		Wheel studs (up to three)	1.7
• Hub removal (refer to hub hours)		– More than three (one hub)	2.2
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			
(Removal and Replacement)	1.4		
Exception: Auto hauler	2.0		
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			
(tire / wheel removal not required)			
– Up to a quantity of two	0.5		
– Each additional hubcap/gasket	0.2		
Inner wheel seal			
Drum brake	1.4		
Exception: Auto hauler	2.0		
Air disc brake	2.5		
Exception: Auto hauler	3.1		
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		



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: HKANT, 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.

All Refers to all applicable Hendrickson suspension/axle descriptions listed above.

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.

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



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