

HENDRICKSON USE ONLY

# ORDERING GUIDE

## CONNEX™-ST TRAILER SELF-STEER SUSPENSION SYSTEM

LIT NO: L1251

DATE: March 2017

REVISION: C

### FORM INSTRUCTIONS

For complete price and model number information on a CONNEX™-ST trailer self-steer suspension system, fax this form to 800.696.4416 in the U.S. or 905.789.1033 in Canada. For additional assistance, please call toll-free 866.RIDEAIR (743.3247) in the U.S. or 800.668.5360 in Canada.

<b>TO:</b>		<b>FROM:</b>		<b>COMPANY NAME:</b>	
<b>DATE:</b>	<b>PHONE:</b>	<b>FAX:</b>		<b>EMAIL:</b>	
<b>SAME AS:</b>			<b>EXCEPT:</b>		

### CUSTOMER / APPLICATION INFORMATION


<b>OE:</b>	<b>LOCATION:</b>	<b>QUANTITY:</b>			
<b>TRAILER TYPE:</b>	<b>TRAILER BEAM OUT-TO-OUT (in):</b>	<b>PRIMARY SUSP. INFO. (i.e. INTRAAX.#):</b>			
<b>TIRE SIZE(S):</b>	<b>TIRE MANUFACTURER:</b>	<b>WHEEL MANUFACTURER:</b>			
<b>WHEEL SIZE:</b>	<b>WHEEL OUTSET (in):</b>	<b>WHEEL INSET (in):</b>	<b>WHEEL PART NUMBER:</b>		

### SUSPENSION

<b>SUSPENSION MODEL:</b>	CXSL 25K						
<b>RIDE HEIGHT (inches):</b>	<input type="checkbox"/> 13	<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16	<input type="checkbox"/> 17	<input type="checkbox"/> 18	<input type="checkbox"/> 19
<b>FRAME BRACKET:</b>	<input type="checkbox"/> Bolt-on	<input type="checkbox"/> Weld-on	<input type="checkbox"/> Weldable Bolt-on				
<b>FRAME BRACKET STYLE:</b>	<input type="checkbox"/> Wingless <sup>1</sup>	<input type="checkbox"/> Winged					
<b>SHOCK ABSORBER:</b>	Standard						
<b>AIR SPRING PSI RANGE<sup>2</sup>:</b>	<input type="checkbox"/> Standard <sup>3</sup>	<input type="checkbox"/> Low Pressure <sup>4</sup>					
<b>FRAME BRACKET SUPPORT:</b>	<input type="checkbox"/> Weld-on Channel	<input type="checkbox"/> Bolt-on with strut <sup>5</sup>	<input type="checkbox"/> Customer Supplied	<input type="checkbox"/> Frame Bracket Gusset (Winged only)			
<b>FRAME BRACKET TO BEAM:</b>	<input type="checkbox"/> Assembled	<input type="checkbox"/> Non-assembled	<input type="checkbox"/> Separate Frame kit				
<b>BEAM / AXLE COATING:</b>	<input type="checkbox"/> Standard Black Primer		<input type="checkbox"/> Black Soft-coat				
<b>COMPONENT COATING / COVER:</b> <small>(Frame Brackets and Air Spring Mounts)</small>	<input type="checkbox"/> Standard Black Primer	<input type="checkbox"/> Galvanized	<input type="checkbox"/> None				

1. Only available with weld-on frame brackets.
2. Air spring PSI range does not change overall suspension capacity rating.
3. For load equalization, the standard air spring is to be used with 23K and 25K primary suspension capacities.
4. For load equalization, the low pressure air spring is to be used with 30K primary suspension capacity.
5. Only available with bolt-on frame brackets. Coating will match selected coating on frame brackets.

# HENDRICKSON

AXLE	
<b>AXLE:</b>	Leading King Pin Self-steer
<b>STYLE:</b>	Straight
<b>SPINDLE:</b>	HP
 Reference page 5 to help select axle track below.	
<b>TRACK (inches):</b>	<input type="checkbox"/> 77.5 <input type="checkbox"/> 80 <input type="checkbox"/> 83.5 <input type="checkbox"/> 84 <input type="checkbox"/> 85 <input type="checkbox"/> 86
<b>Suspension Beam Center (by track):</b>	30.00"      32.50"      36.00"      36.50"      37.50"      38.5"
<b>WHEEL CUT:</b>	<input type="checkbox"/> 20 degrees <input type="checkbox"/> 25 degrees <input type="checkbox"/> 28 degrees <input type="checkbox"/> 30 degrees
<b>LOCK STRAIGHT MECHANISM:</b>	Standard
<b>TIRE INFLATION SYSTEM<sup>6</sup>:</b>	<input type="checkbox"/> TIREMAAX <sup>®</sup> CP (Complete Worksheet on pg. 4) <input type="checkbox"/> TIREMAAX PRO (Complete Worksheet on pg. 4) <input type="checkbox"/> No

DRUM BRAKES *	*Refer to L809 for Drum Brake Certifications.
<b>BRAKE RATING:</b>	<input type="checkbox"/> 20,000 GAWR <input type="checkbox"/> 23,000 GAWR
<b>BRAKE SIZE:</b>	16.5" x 7"
<b>BRAKE MODEL:</b>	HXS <sup>®</sup>
<b>BRAKE COATING:</b>	Standard
<b>BRAKE CHAMBER:</b>	<input type="checkbox"/> Type 30 <input type="checkbox"/> Type 30/30
<b>BRAKE CHAMBER STROKE:</b>	3.0"
<b>BRAKE CHAMBER WARRANTY:</b>	Extended
<b>BRAKE ADJUSTER:</b>	<input type="checkbox"/> 5.5" <input type="checkbox"/> 6.0"
<b>S-CAM:</b>	28 Spline
<b>CAM TUBE SYSTEM:</b>	Standard
<b>DUST SHIELD:</b>	Yes
<b>ABS SENSOR:</b>	<input type="checkbox"/> No <input type="checkbox"/> Haldex (19.7") <input type="checkbox"/> WABCO (15.7") <input type="checkbox"/> Bendix (14.8")

ACCESSORY ITEMS	
<b>SUSPENSION LIFT KIT<sup>7</sup>:</b>	<input type="checkbox"/> No <input type="checkbox"/> UBL <sup>™</sup> Painted <input type="checkbox"/> UBL Galvanized

6. 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.
7. If UBL Kit is selected, it will be included with suspension kit. UBL beam brackets will be installed on suspension beams by Hendrickson.

**DRUM BRAKE RTR® READY-TO-ROLL® PACKAGES \***

\*Consult a customer service representative to ensure compatibility of the wheel-end equipment with the other selected suspension parameters.


	<input type="checkbox"/> <b>HXL3® Hendrickson Extended-Life System™</b> (3-Year Limited Warranty <sup>8</sup> )	<input type="checkbox"/> <b>HXL5® Hendrickson Extended-Life System™</b> (5-Year Limited Warranty <sup>8</sup> )
<b>SPINDLE:</b>	HP	HP
<b>HUB MATERIAL:</b>	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub® <input type="checkbox"/> Aluminum	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Aluminum
<b>HUB STYLE:</b>	Hub Piloted	Hub Piloted
<b>NUMBER OF STUDS:</b>	10	10
<b>BOLT CIRCLE DIAMETER:</b>	11.25"	11.25"
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum
<b>DUAL / SUPER SINGLE:</b> (SS) Short Stud (LS) Long Stud	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)
<b>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease
<b>SEAL:</b>	Standard	Standard
<b>BEARING:</b>	Standard	Standard
<b>SPINDLE NUT:</b>	PRECISION320® Nut System	PRECISION320 Nut System
<b>HUBCAP TYPE:</b>	Standard Aluminum Bolt-on	Standard Aluminum Bolt-on
<b>ABS TONE RING:</b>	Yes	Yes

<b>DRUM OPTIONS</b>			
<b>DRUM MATERIAL:</b>	<input type="checkbox"/> Cast – Standard Duty	<input type="checkbox"/> Cast – Heavy Duty	<input type="checkbox"/> Fused – Standard Duty <input type="checkbox"/> None
<b>DRUM BALANCING:</b>	Balanced		
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>9</sup>	<input type="checkbox"/> No	

8 . Refer to Hendrickson publication L583 Comprehensive Warranty Statement for complete details.

9 . Two (2) wheel fasteners factory installed per wheel-end with balance packaged in plastic bag, taped and stretch-wrapped to each wheel-end.

## TIREMAAX® KIT WORKSHEET<sup>6</sup>

<b>TOTAL NUMBER OF TRAILER AXLES (Primaries and liftable / self-steers):</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> More than 4						
<b>COLD TIRE PRESSURE SETTING (psi):</b>	<b>Primary Suspension(s):</b> <input type="checkbox"/> 70 <input type="checkbox"/> 75 <input type="checkbox"/> 80 <input type="checkbox"/> 85 <input type="checkbox"/> 90 <input type="checkbox"/> 95 <input type="checkbox"/> 100 <input type="checkbox"/> 105 <input type="checkbox"/> 110 <input type="checkbox"/> 115 <input type="checkbox"/> 120		<b>CONNEX™-ST Self-Steer Suspension(s):</b> <input type="checkbox"/> 70 <input type="checkbox"/> 75 <input type="checkbox"/> 80 <input type="checkbox"/> 85 <input type="checkbox"/> 90 <input type="checkbox"/> 95 <input type="checkbox"/> 100 <input type="checkbox"/> 105 <input type="checkbox"/> 110 <input type="checkbox"/> 115 <input type="checkbox"/> 120		Contact Hendrickson Controls at 330-489-1532 for assistance.						
 <b>Verify answer before proceeding.</b>	If the psi settings are <b>different</b> between the primary and CONNEX-ST suspensions, a separate L868 TIREMAAX Ordering Guide must be completed for the primary TIREMAAX kit and the below TIREMAAX worksheet must be completed for the CONNEX-ST TIREMAAX kit.										
	If the psi settings are the <b>same</b> between the primary and CONNEX-ST suspensions, complete the TIREMAAX worksheet below for a single TIREMAAX kit that works for both.										
<b>CONTROLLER TYPE:</b>	<input type="checkbox"/> CP <input type="checkbox"/> PRO										
<b>ELECTRICAL CONNECTION:</b>	<input type="checkbox"/> Delphi Weather Pack (Standard)		<input type="checkbox"/> Blade Terminals <sup>10</sup> (Hendrickson Controls approval required)								
<b>KIT STYLE:</b>	For OEM Install										
<b>AXLE STYLE:</b>	Standard										
<b>AXLE PREPARATION:</b>	TIREMAAX Prepped / Wheel-ends Installed by Hendrickson (Kit includes controller and tire hoses.)										
<b>NUMBER OF AXLES:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4							
<b>SPINDLE STYLE:</b>	HP										
<b>HUBCAP TYPE:</b>	Hendrickson Bolt-on										
<b>LUBE TYPE:</b>	<input type="checkbox"/> Semi-fluid Grease		<input type="checkbox"/> Oil								
<b>TIRE SIZE:</b>	22.5"										
<b>WHEEL STYLE / MATERIAL:</b>	<input type="checkbox"/> Dual / Aluminum		<input type="checkbox"/> Dual / Steel or Combo								
	<input type="checkbox"/> Super Single / Aluminum		<input type="checkbox"/> Super Single / Steel (outboard valve stem)		<input type="checkbox"/> Super Single / Steel (inboard valve stem)						
<b>COLD TIRE PRESSURE SETTING (psi)<sup>11</sup>:</b>	<input type="checkbox"/> 70	<input type="checkbox"/> 75	<input type="checkbox"/> 80	<input type="checkbox"/> 85	<input type="checkbox"/> 90	<input type="checkbox"/> 95	<input type="checkbox"/> 100	<input type="checkbox"/> 105	<input type="checkbox"/> 110	<input type="checkbox"/> 115	<input type="checkbox"/> 120
<b>TRAILER-MOUNTED INDICATOR LIGHT KIT:</b>	<input type="checkbox"/> LED - 12V with 65-foot Cable (Standard)		<input type="checkbox"/> LED - 12V with 35-foot Cable (Standard)		<input type="checkbox"/> LED - 24V (Export <sup>12</sup> )						
	<input type="checkbox"/> Incandescent - 12V		<input type="checkbox"/> No <sup>10</sup>								
<b>WIRING HARNESS:</b>	<input type="checkbox"/> Premium, 15-foot, ABS-ready		<input type="checkbox"/> Premium, 3-foot, ABS-ready			<input type="checkbox"/> Standard, 18-inch, Wiring Adapter Plug					
	<input type="checkbox"/> No <sup>10</sup> (Hendrickson Controls approval required)										
<b>AIR PLUMBING KIT:</b>	<input type="checkbox"/> Manifold <sup>13</sup>		<input type="checkbox"/> None								
<b>CONTROLLER TANK VALVE<sup>14</sup>:</b> (Pressure Check)	<input type="checkbox"/> Yes (CP models only)				<input type="checkbox"/> No						

10. Controllers featuring blade terminals, require the light kit and wiring harness options to be "no".

11. Refer to tire manufacturer's recommended tire pressure. TIREMAAX PRO is restricted to cold tire pressure setting of 85-120 psi.

12. Please note, 12V is used in some export countries. If this is a new venture into a foreign country, please validate voltage requirements with Controls Engineering.

13. Not available for single-axle systems.

14. Not available with TIREMAAX PRO.

# AXLE TRACK / TIRE OUT-TO-OUT

For a 96" or 102" wide trailer, the following axle tracks are listed as references for non-steerable suspensions:				
SUSPENSION TYPE	Non-Steerable			
WHEEL STYLE / MATERIAL	Duals / Steel			
WHEEL SIZE: (Diameter x Width x Offset)	22.5 x 8.25 x 6.62		24.5 x 8.25 x 6.62	
TIRE SIZE	11R22.5		11R24.5	
AXLE TRACK	71.5	77.5	71.5	77.5
A (TIRE OUT TO OUT)	96.2	102.2	96.0	102.0

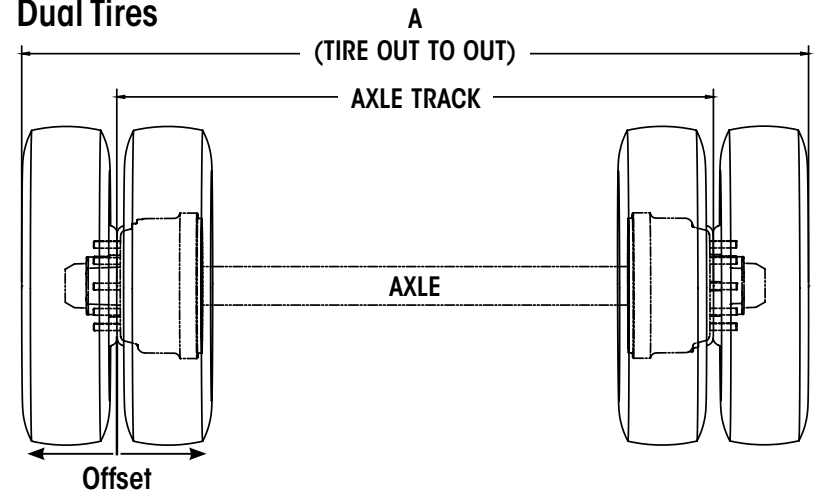
For a 96" wide trailer, the following axle tracks are recommended for steerable suspensions:				
SUSPENSION TYPE	CONNEX-ST			
WHEEL STYLE / MATERIAL	Super Single / Aluminum			
WHEEL SIZE: (Diameter x Width x Offset)	22.5 x 12 x 0.56		22.5 x 14 x 0	
TIRE SIZE	385 / 65R22.5	425 / 65R22.5	455 / 55R22.5	
AXLE TRACK	80.0	77.5	77.5	
B (TIRE OUT TO OUT)	95.5	94.5	94.6	

For a 102" wide trailer, the following axle tracks are recommended for steerable suspensions:				
SUSPENSION TYPE	CONNEX-ST			
WHEEL STYLE / MATERIAL	Super Single / Aluminum			
WHEEL SIZE: (Diameter x Width x Offset)	22.5 x 12 x 0.56		22.5 x 14 x 0	
TIRE SIZE	385 / 65R22.5	425 / 65R22.5	455 / 55R22.5	
AXLE TRACK	86.0	84.0	85.0	
B (TIRE OUT TO OUT)	101.5	101.0	102.1	

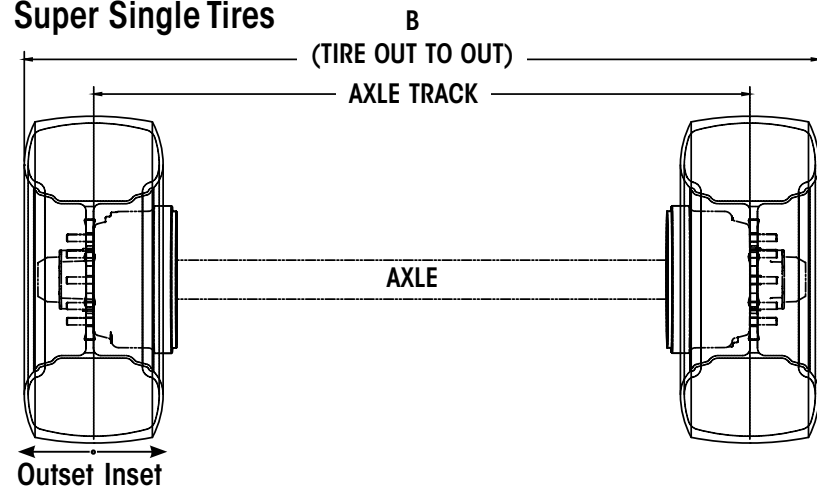
For a 96" or 102" wide trailer, the following axle tracks are recommended for steerable suspensions:				
SUSPENSION TYPE	CONNEX-ST			
WHEEL STYLE / MATERIAL	Duals / Steel			
WHEEL SIZE: (Diameter x Width x Offset)	22.5 x 8.25 x 6.62		24.5 x 8.25 x 6.62	
TIRE SIZE	11R22.5		11R24.5	
AXLE TRACK	71.5	77.5	71.5	77.5
B (TIRE OUT TO OUT)	N/A	102.2	N/A	102.0

NOTE: Please see L1250 CONNEX-ST Application Guide for additional information.

## Dual Tires



## Super Single Tires





**Notes**

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Call your trailer dealer or Hendrickson at **330.489.0045** or **866.RIDEAIR (743.3247)** for additional information.



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

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