

HENDRICKSON USE ONLY

This ordering guide is for non-NAFTA applications using 335 mm BC hubs. Refer to L602 INTRAAX Ordering Guide for NAFTA applications.

ORDERING GUIDE

GLOBAL SYSTEMS INTRAAX® SUSPENSION

LIT NO: L1254

DATE: December 2020

REVISION: A

FORM INSTRUCTIONS

For complete price and model number information on an INTRAAX® 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.

TO:		FROM:		COMPANY NAME:	
DATE:	PHONE:	FAX:	EMAIL:		

SAME AS:	EXCEPT:
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SUSPENSION

SUSPENSION MODEL:	<input type="checkbox"/> AANT 23K	<input type="checkbox"/> AAT 23K	<input type="checkbox"/> AAT 25K	<input type="checkbox"/> AAT 30K ¹	<input type="checkbox"/> AAEDT 30K	<input type="checkbox"/> AANLS 20K	<input type="checkbox"/> AANL 23K	<input type="checkbox"/> AAL 23K
	<input type="checkbox"/> AAL 25K	<input type="checkbox"/> AAL 30K ¹	<input type="checkbox"/> AAEDL 30K					
RIDE HEIGHT: (inches)	<input type="checkbox"/> 6.25	<input type="checkbox"/> 6.5	<input type="checkbox"/> 7	<input type="checkbox"/> 7.5	<input type="checkbox"/> 8	<input type="checkbox"/> 9	<input type="checkbox"/> 12	<input type="checkbox"/> 13
	<input type="checkbox"/> 13.5	<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16	<input type="checkbox"/> 17	<input type="checkbox"/> 18	<input type="checkbox"/> 19	
FRAME BRACKET:	<input type="checkbox"/> Bolt-On	<input type="checkbox"/> Weldable Bolt-On	<input type="checkbox"/> Side-Mount Bolt-On		<input type="checkbox"/> Weld-On	<input type="checkbox"/> Other		
	MOUNTING BOLT SIZE:			<input type="checkbox"/> 0.500"	<input type="checkbox"/> 0.625"	BOLT PATTERN NUMBER:		
FRAME BRACKET STYLE:	<input type="checkbox"/> Wingless Hanger		<input type="checkbox"/> Hanger with Wing					
FRAME BRACKET PROFILE:	<input type="checkbox"/> N/A	<input type="checkbox"/> Standard	<input type="checkbox"/> Tapered (AANT/AANL models only ²)					
FRONT SHOCK ABSORBER:	<input type="checkbox"/> Standard	<input type="checkbox"/> Extended Service / High Damping			<input type="checkbox"/> No ³			
FRONT SHOCK STRAPS:	<input type="checkbox"/> Yes		<input type="checkbox"/> No					
REAR SHOCK ABSORBER⁴:	<input type="checkbox"/> Extended Service / High Damping			<input type="checkbox"/> No				
REBOUND LIMITER:	<input type="checkbox"/> Yes		<input type="checkbox"/> No					
SURELOK® READY:	<input type="checkbox"/> Yes		<input type="checkbox"/> No					
TRAVEL:	<input type="checkbox"/> Standard	<input type="checkbox"/> Ltd Jounce / Up-Travel (AAL)			<input type="checkbox"/> Ltd Rebound / Down-Travel (AAT)			
AIR SPRING PSI RANGE:	<input type="checkbox"/> Standard		<input type="checkbox"/> Low Pressure (Limited Availability by Model)					
HIGH CONTROL SUSPENSION⁵:	<input type="checkbox"/> Yes		<input type="checkbox"/> No					
CHANNEL:	<input type="checkbox"/> Standard C-Channel		<input type="checkbox"/> Bolt-on C-Channel ⁶		<input type="checkbox"/> Customer Supplied	<input type="checkbox"/> Included	<input type="checkbox"/> Other:	

- Suspension models are limited to a 25,000-pound axle rating.
- Frame bracket profile is required for all AANT models and 12- through 17-inch ride height AANL models.
- Selection only permitted when rear shock absorbers are specified.
- Rear shock absorbers are available on AAL, AAEDT and AAEDL suspensions only.
- High control suspensions are recommended for single-axle trailers in multi-trailer combinations, all dollies and full trailers with two single axles. Not for use on multiple-axle trailers.
- Only available with bolt-on frame brackets. Struts included on certain models.



SUSPENSION (CONTINUED)

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BUSHING TUBE SPACER⁷:	<input type="checkbox"/> Standard	<input type="checkbox"/> Optional Cap Style		
FRAME BRACKET TO BEAM:	<input type="checkbox"/> Assembled	<input type="checkbox"/> Non-Assembled		
SUSPENSION PAINT OPTIONS: Surface Coating — Axle/Beam Weldment: Surface Coverage — Frame Brackets:	<input type="checkbox"/> None	<input type="checkbox"/> Standard Black Primer	<input type="checkbox"/> Finished Soft Coat - Black	<input type="checkbox"/> Finished Soft Coat - Gray
	<input type="checkbox"/> Standard (same as surface coating)	<input type="checkbox"/> None / Do Not Paint Frame Brackets	<input type="checkbox"/> Galvanized ⁸	

AXLE * *Refer to "L846 — Wide Base Tire Configuration Bulletin" for Track / Wheel Recommendations

STYLE:	<input type="checkbox"/> Straight	<input type="checkbox"/> Cambered ⁹ (AANT, AAT)	<input type="checkbox"/> Raised Center (AAT/AAL 23K and 25K Only)				
TRACK (inches):	<input type="checkbox"/> 71.5	<input type="checkbox"/> 73	<input type="checkbox"/> 75.5	<input type="checkbox"/> 76.5	<input type="checkbox"/> 77.5	<input type="checkbox"/> 83.5	<input type="checkbox"/> 85
SPINDLE:	<input type="checkbox"/> HN	<input type="checkbox"/> HP					
TIRE INFLATION SYSTEM¹⁰:	<input type="checkbox"/> TIREMAAX [®] CP (Complete Worksheet on page 5)		<input type="checkbox"/> TIREMAAX PRO (Complete Worksheet on page 5)	<input type="checkbox"/> No			



Are you ordering air disc brakes? No (Continue on page 2) Yes (Go to page 4)

DRUM BRAKES * *Refer to L809 for active ECE brake certifications.

BRAKE LINING:	<input type="checkbox"/> H20	<input type="checkbox"/> ULTRAA20™	<input type="checkbox"/> H26
BRAKE SIZE:	<input type="checkbox"/> 16.5" x 7"	<input type="checkbox"/> 16.5" x 8-5/8"	<input type="checkbox"/> 16.5" x 7" <input type="checkbox"/> 16.5" x 8-5/8"
BRAKE MODEL:	<input type="checkbox"/> HXS [®]	<input type="checkbox"/> HXS	<input type="checkbox"/> HXS <input type="checkbox"/> HXS
BRAKE COATING:	<input type="checkbox"/> Standard <input type="checkbox"/> AAXTREME COAT [®]	<input type="checkbox"/> Standard <input type="checkbox"/> AAXTREME COAT [®]	<input type="checkbox"/> Standard
BRAKE CHAMBER:	<input type="checkbox"/> Haldex 30/30, 3.0" stroke		
BRAKE CHAMBER WARRANTY:	<input type="checkbox"/> Standard		
BRAKE ADJUSTER:	<input type="checkbox"/> Haldex 6.0" <input type="checkbox"/> Other:		
S-CAM SPLINES:	<input type="checkbox"/> 28 Spline		
CAM TUBE SYSTEM:	<input type="checkbox"/> Standard <input type="checkbox"/> Severe Service ¹¹		
DUST SHIELD:	<input type="checkbox"/> No <input type="checkbox"/> Yes		
ABS SENSOR:	<input type="checkbox"/> No	<input type="checkbox"/> Haldex 19.7"	<input type="checkbox"/> Wabco 15.7" <input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Wabco 36.0"

7. The cap style bushing tube spacer is standard on the following models: AAEDT / AAEDL 30K, AAT / AAL 30K. It is an option on: AAT / AAL 23K, AAT / AAL 25K. It is not available on AANLS 20K, AANL 23K or AANT 23K suspensions. Cap style bushing tube spacers are required for logging and tanker applications using AAT and AAL suspensions.
8. Galvanized coating option is only available with bolt-on frame brackets and is not compatible with weld-on channels or other weld-on components assembled by the OEM.
9. Not available on AANLS, AAEDT or AAEDL models.
10. 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.
11. Designed for road input that cause excessive vibration such as rugged, secondary, off-road conditions.

DRUM BRAKE RTR® READY-TO-ROLL® PACKAGES¹³**Global Service** (1-Year Limited Warranty¹³)

HUB MATERIAL:	Ductile Iron
HUB STYLE:	Hub Piloted
NUMBER OF STUDS:	10
BOLT CIRCLE DIAMETER:	335 mm
WHEEL MATERIAL:	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum
DUAL / SUPER SINGLE:	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) ¹⁴ <input type="checkbox"/> Super Single (LS) ¹⁵
LUBE TYPE:	<input type="checkbox"/> Semi-Fluid Grease
SEAL:	Standard
BEARING:	Standard
SPINDLE NUT:	PRECISION240® Nut System or PRECISION320® Nut System
HUBCAP TYPE:	Standard Bolt-On
ABS TONE RING:	Yes

DRUM OPTIONS

DRUM MATERIAL:	<input type="checkbox"/> Cast <input type="checkbox"/> Fused
DRUM DUTY:	<input type="checkbox"/> Standard <input type="checkbox"/> Heavy Duty
DRUM BALANCING:	Balanced
WHEEL FASTENERS:	<input type="checkbox"/> Yes ¹⁶ <input type="checkbox"/> No

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

13. Refer to Hendrickson publication "L583 – Comprehensive Warranty Statement" for complete details.

14. SS (Short Stud)

15. LS (Long Stud)

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

HENDRICKSON SUSPENSION AND AXLES AVAILABLE WITH AIR DISC BRAKES (ADB)

SUSPENSION / AXLE MODELS	AVAILABILITY
AANT 23K	Requires unique HCV
AANLS 20K / AANL 23K	Requires rear mounted shocks and unique HCV
AAT 23K, 25K, 30K, RCA	ADB available without SURELOK – Requires unique HCV
AAL 23K, 25K, 30K	Requires rear mounted shocks
AAEDL/AAEDT 30K ¹⁷	Requires rear mounted shocks



WARNING: IMPROPER WHEELS OR VALVE STEMS can interfere with air disc brakes and cause rapid tire deflation, component damage, loss of vehicle control, property damage or severe personal injury. Use only wheels and valve stems that provide proper running clearance with air disc brakes equipped on the suspension. Contact vehicle manufacturer to determine replacement wheels and valve stems approved for the application.

DISC BRAKES *	*Please refer to L1225 at www.hendrickson-intl.com for more important information to consider when spec'ing air disc brakes.
HENDRICKSON MAXX22T™ ADB (Hendrickson Standard)	
CONVERTER DOLLY APPLICATION:	<input type="checkbox"/> No <input type="checkbox"/> Yes (Service Only Chamber Available)
DISC BRAKE APPROVAL:	<input type="checkbox"/> Approval: 20,000 lb or less GAWR or up to 23,000 lb GAWR with appropriate tire SLR (See L809 for all Brake Certifications)
PAD/LINING:	WABCO 233
BRAKE CHAMBER:	<input type="checkbox"/> WABCO 18/24 Std <input type="checkbox"/> WABCO 18 (Dolly)
ABSTONE RING / DUST SHIELD:	Required
ABS SENSORS (Required):	<input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Bendix 78.7" <input type="checkbox"/> Haldex 19.7" <input type="checkbox"/> Haldex 78.7" <input type="checkbox"/> WABCO 39.4"
ROTOR BRAND/MATERIAL:	415mm Cast Iron
RTR® READY-TO-ROLL® WHEEL-END PACKAGES:	Global Service (1-year Limited Warranty ¹³)
SPINDLE:	<input type="checkbox"/> HN <input type="checkbox"/> HP
HUB MATERIAL:	Ductile Iron
HUB STYLE:	Hub-Piloted × 10-stud × 335mm BC for 22.5" and 24.5" tires
WHEEL MATERIAL:	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum
DUAL / SUPER SINGLE: (SS) Short Stud (LS) Long Stud	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)
LUBE TYPE:	Semi-Fluid Grease
SEAL:	Standard
BEARINGS:	Standard
SPINDLE NUT:	PRECISION240 Nut System or PRECISION320 Nut System
HUBCAP TYPE:	Standard Bolt-On

17. Not available with Hendrickson MAXX22T.

ACCESSORY ITEMS	Not included in INTRAAX® Model Number — Sold Separately				L1254 Rev A
HEIGHT CONTROL VALVE:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Integral Dump:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
MANUAL DUMP VALVE:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	With Enclosure:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
UNIVERSAL LOAD SCALE KIT:	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
UBL™ UNDER BEAM LIFT™18:	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
TIREMAAX® TIRE HOSE/WHEEL GROMMETS (Fits Outside Aluminum Dual):	Hand Hole/Valve Stem: <input type="checkbox"/> 1.5" Offset <input type="checkbox"/> 2.0" Center <input type="checkbox"/> 2.5" Center <input type="checkbox"/> 2.5" Offset				

TIREMAAX® KIT WORKSHEET^{19,20}

CONTROLLER TYPE:	<input type="checkbox"/> CP		<input type="checkbox"/> PRO		
ELECTRICAL CONNECTION:	<input type="checkbox"/> Delphi Weather Pack (Standard)		<input type="checkbox"/> Blade Terminals ²¹		
NUMBER OF AXLES:	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> Other:
HUBCAP TYPE:	Hendrickson Bolt-On				
LUBE TYPE:	Semi-Fluid Grease				
WHEEL STYLE / MATERIAL	<input type="checkbox"/> Dual / Aluminum		<input type="checkbox"/> Dual / Steel or Combo		<input type="checkbox"/> Super Single / Aluminum (straight hose)
	<input type="checkbox"/> Super Single / Steel (outboard valve stem; 180-degree hose)			<input type="checkbox"/> Super Single / Steel (inboard valve stem; straight hose)	
TIRE SIZE:	<input type="checkbox"/> 17.5"	<input type="checkbox"/> 19.5"	<input type="checkbox"/> 22.5"	<input type="checkbox"/> 24.5"	
COLD TIRE PRESSURE SETTING (psi)^{22:}	<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
TIRE HOSE:	<input type="checkbox"/> Standard		<input type="checkbox"/> Integral Check Port (22.5" tire size only)		
TRAILER-MOUNTED INDICATOR LIGHT KIT:	<input type="checkbox"/> LED – 12V with 65-foot Cable (Standard)		<input type="checkbox"/> LED – 12V with 35-foot Cable		<input type="checkbox"/> LED – 24V (Export ²³)
	<input type="checkbox"/> Incandescent – 12V		<input type="checkbox"/> No ²¹		
WIRING HARNESS:	<input type="checkbox"/> Premium, 15-Foot, ABS-ready		<input type="checkbox"/> Premium, 3-Foot, ABS-ready		
	<input type="checkbox"/> Standard, 18-inch, Wiring Adaptor Plug		<input type="checkbox"/> No ²¹		
AIR PLUMBING KIT:	<input type="checkbox"/> Manifold ²⁴		<input type="checkbox"/> No		
CONTROLLER TANK VALVE^{25:} (Pressure Check)	<input type="checkbox"/> Yes (CP Models Only)		<input type="checkbox"/> No		

18. When selecting a UBL, its operating limitations may vary depending upon the suspension model, ride height and application. In some cases, a lift is only recommended for lifting an unloaded trailer. Contact Hendrickson for assistance.
19. Hendrickson does not provide warranty coverage for the installation, performance or components of a competitor brand tire inflation system installed on a Hendrickson suspension or trailer axle. Any consequential damages to the Hendrickson suspension or trailer axle 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.
20. When installing TIREMAAX, please contact Hendrickson to verify correct wheel-end component integration.
21. Controllers featuring Blade Terminals require the light kit and wiring harness options to be "no".
22. Refer to tire manufacturer's recommended tire pressure. TIREMAAX PRO is restricted to Cold Tire Pressure Setting of 85-120 psi.
23. 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.
24. Not available for single-axle systems.
25. Not available with TIREMAAX PRO.

*Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.
All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.
Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.*

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



www.hendrickson-intl.com

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TRAILER COMMERCIAL VEHICLE SYSTEMS

2070 Industrial Place SE
Canton, OH 44707-2641 USA
866.RIDEAIR (743.3247)
330.489.0045 • Fax 800.696.4416

Hendrickson Canada

250 Chrysler Drive, Unit #3
Brampton, ON Canada L6S 6B6
800.668.5360
905.789.1030 • Fax 905.789.1033

Hendrickson Mexicana

Círculo El Marqués Sur #29
Parque Industrial El Marqués
Pob. El Colorado, Municipio El Marqués,
Querétaro, México C.P. 76246
+52 (442) 296.3600 • Fax +52 (442) 296.3601