

TRAILER SUSPENSION SYSTEMS

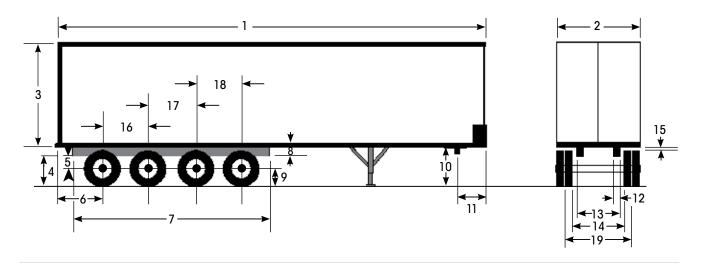
LIT NO: L633

DATE: February 2022 REVISION: E

INSTRUCTIONS: In order to assist you in selecting the suspension most appropriate for your specific application, please provide us with the information requested. Return the form via fax or mail, as indicated below. Contact Hendrickson Customer Service Department at **866-RIDEAIR** (**866-743-3247**) for assistance in completing this form.

COMPANY NAME: CONTACT NAME: PHONE NO.: FAX NO.: DATE: SEND TO:					STREET ADDRESS:			
				CITY: STATE: COUNTRY: E-MAIL:		POSTAL CODE:		
		Hendrickson Commercial Vehicle Systems OR FAX TO: (800) 696-4416 Customer Service Department 2070 Industrial Place SE Canton OH USA 44707-2600						
1.	Trailer type a	nd manufactu	ırer:					
2.								
3.	Type of installation: New trailer Conversion (For conversions read page 4) Adding axle(s) to existing trailer							
4.	Brake type, si	ze and capac	eity:					
5.								
6.	<u> </u>							
7.	Air controls re	•						
	Height control valve				☐ 3/8" Fittings☐ Electric		□ 1/4" Fittings	
	Axle lift Suspensi	on air exhaus	et (dumn)		ectric Itomatic		☐ Manual ☐ Manual	
	NOTE: Si	ngle axle dun	np is ONL	Y approved if used with a raise/lower kit, back	h a 10 mph sp	peed reset.	(Ref. FMCSR 393.207)	
Ор (erating Conditi Type of cargo		weight: _					
2.	Road Condition	ons:	Rough	☐ Smooth				
3.	Area of Opera	ation:						
4.	Duty Cycle:		24/7	□ 8/5				





DIRECTIONS: Refer to the above graphic when providing the necessary information about your trailer and suspension needs. Please be sure to specify appropriate units of measure (pounds, kilograms, inches, millimeters, etc.).

GENERAL TRAILER MEASUREMENT	ſS:	
Overall Length (Dim. 1)		
Overall Width (Dim. 2)		
Body Height (Dim. 3)		
Center of Rear Axle to Rear of Trailer (Dim. 6)		
Sub-frame Length (Dim. 7)		
King Pin Height When Coupled to Tractor (Dim. 7		
King Pin to Front of Trailer (<i>Dim. 11</i>)		
Sub-frame Flange Width (Dim. 12)		
Sub-frame Width (Dim. 13)		
Inside to Inside of Tires (Dim. 14)		
Distance Between Axles (Dim. 16)		

AXLE/SUSPENSION MEASUREMENTS:

	AXLE A	AXLE B	AXLE C	AXLE D
Loaded Sub-frame to Ground (Dim. 4)				
Ride Height (Dim. 5) (Center of axle to bottom of frame)				
Frame to Trailer Body (Dim. 8)				
Tire Static Loaded Radius (Dim. 9)				
Clearance Above the Tires (Dim. 15)				
Axle Track (Dim. 19)				

L633 Rev E



AXLE/SUSPENSION REQUIREMENTS:

		AXLE A	AXLE B	AXLE C	AXLE D			
Required Axle Capacity (GAWR)								
Suspension Type (Check all that apply))	☐ Existing☐ New	☐ Existing☐ New	☐ Existing☐ New	☐ Existing ☐ New			
		☐ Mechanical ☐ Air	☐ Mechanical ☐ Air	☐ Mechanical ☐ Air	☐ Mechanical ☐ Air			
		☐ Primary ☐ Liftable ☐ Sliding Sub-frame						
Required Tire to Gro (Lifted Suspension)	und Clearance							
Axle Travel	Up (Jounce)							
Required	Down (Rebound)							
Axle Type	Track							
	Outside Diameter							
	Wall Thickness							
Tire Size								
PREFERRED SUSPENSION MODEL: Has this model been used on similar trailer designs / applications before? YES NO COMMENTS:								
It is the responsibility of the suspension installer to ensure there is adequate structural strength in the area of the suspension attachment. In addition, the proper attachment of the suspension is solely the responsibility of the suspension installer. The suspension assembly drawing and installation instructions should be reviewed before attempting any installation.								
It is the responsibility of the suspension purchaser to ensure that the suspension assembly drawings and installation instructions are provided to the suspension installer. I agree to accept the installation and application responsibilities as they are described.								
APPLICANT'S SIGNATURE: DATE:								

L633 Rev E

APPLICATION QUESTIONNAIRE



CONVERTING TO HENDRICKSON TRAILER AIR SUSPENSIONS

At times it is desired to "convert" or "remanufacture" a trailer originally produced with a spring suspension or another brand of air suspension to a Hendrickson Trailer Air Suspension. Some factors to consider:

CONTACT THE OEM

The original manufacturer of the trailer should be contacted for recommendations and approval before making trailer modifications.

SUSPENSION CHOICES

INTRAAX® AAT/AAL or HT™ Series suspensions may be the most appropriate choice for "conversion" or "remanufacture" programs due to the greater experience that exists in the industry for installation of this product. Refer to Hendrickson publication L707, *Application Guide - Trailer Suspension Systems* (available at www.hendrickson-intl.com), for suspension application guidance. INTRAAX AANT/AANL is not recommended for this use.

Contact Hendrickson for slider retrofit recommendations.

SUSPENSION CROSSMEMBERS

Hendrickson suspensions require crossmembers in the trailer frame or subframe at specific locations. These crossmembers are shown on our installation drawings. *However, these installation drawings are guidance for OEM's and are not specific to any particular trailer design. They are <u>not</u> intended to provide information for a "conversion" or "remanufacture" program. It is unlikely that an existing trailer equipped with another suspension has crossmembers in the correct location. <i>It is likely that existing crossmembers will have to be removed and correctly placed crossmembers subsequently installed.*

Hendrickson does not provide these crossmembers and related parts, nor can we provide recommendations for the modification of trailer frames or subframe. If the original trailer manufacturer is currently installing Hendrickson suspensions they may provide guidance and be a source for crossmembers and the other necessary parts.

AXLES

Often it is assumed that existing axles from spring suspensions can be reused with HT suspensions. The axle wall thickness used with spring suspensions is rarely adequate for use with trailing beam air suspensions that are welded to the axle. Likewise, these axles usually do not have the correct length of camshafts and brake chamber location for clearance of HT suspensions.

AIR CONTROLS

An air suspension must be operated at the correct ride height and must be provided with a reliable air supply. The simplest means to accomplish this is the use of a single HCV (Height Control Valve). To select the appropriate HCV refer to Hendrickson publication L1182, *Controls Parts Catalog* (available at www.hendrickson-intl.com).

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

TRAILER COMMERCIAL VEHICLE SYSTEMS
2070 Industrial Place SE

2070 Industrial Place SE Canton, OH 44707-2641 USA 866.RIDEAIR (743.3247) 330.489.0045 • Fax 800.696.4416 Hendrickson Canada ULC 2825 Argentia Road, Unit #2 - 4 Mississauga, ON Canada L5N 8G6 800.668.5360 905.789.1030 • Fax 905.802.9423 Hendrickson Mexicana
Circuito 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