HAPPLICATION QUESTIONNAIRE TRAILER SUSPENSION SYSTEMS

LIT NO: L633 DATE: September 2019 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:				STREET ADDRESS:				
CONTACT NAME: PHONE NO.: FAX NO.: DATE: SEND TO:		STA CO		City: State: Country: E-Mail:	STATE: POSTA COUNTRY:		L 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 and manufacturer:							
2.	Trailer frame	material c	and construct	ction (e.g. steel C-channe	el, aluminum I-be	am):		
3.	Type of instal	lation:	🗅 New trai	ler Conversion (Fo	or conversions read	d page 4)	Adding axle(s) to	o existing trailer
4.	Brake type, size and capacity:							
5.	Number of su	umber of suspensions required: Date required:						
6.	Suspension assembly required: Unitized (Frame brackets assembled to the suspension) Non-unitized (Frame brackets NOT assembled to the suspension) 					n)		
7.	7. Air controls required: Height control valve Axle lift Suspension air exhaust (dump)			'8" Fittings		□ 1/4" Fittings		
			aust (dum		ectric utomatic		Manual Manual	
	NOTE: Si	ngle axle	dump is ON	ILY approved if used wi .g. raise/lower kit, bac	th a 10 mph spe	eed reset.	(Ref. FMCSR 393.207)	
Ор	erating Condit	ions						
1.	Type of cargo	carried a	nd weight:					
2.	Road Condition	ons:	Rough	Smooth				
3.	Area of Opera	ation:						
4.	Duty Cycle:		24/7	□ 8/5				

The World Rides On Us®

HHENDRICKSON



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 MEASUREMENTS:

Overall Length (Dim. 1)		
Overall Width (Dim. 2)		
Body Height <i>(Dim. 3)</i>		
Center of Rear Axle to Rear of Trailer (Dim. 6)		
Sub-frame Length (Dim. 7)		
King Pin Height When Coupled to Tractor (Dim. 10)		
King Pin to Front of Trailer (Dim. 11)		
Sub-frame Flange Width (Dim. 12)		
Sub-frame Width (Dim. 13)		
Inside to Inside of Tires (Dim. 14)		
Distance Between Axles (Dim. 16)	(Dim. 17)	(Dim. 18)

AXLE/SUSPENSION MEASUREMENTS:

	AXLE A	AXLE B	AXLE C	AXLE D
Loaded Sub-frame to Ground (Dim. 4)				
Ride Height (<i>Dim. 5</i>) (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)				

H

AXLE/SUSPENSION REQUIREMENTS:

		AXLE A	AXLE B	AXLE C	AXLE D
Required Axle Capac	city (GAWR)				
Suspension Type (Check all that apply))	ExistingNew	 Existing New 	ExistingNew	ExistingNew
		 Mechanical Air 	 Mechanical Air 	MechanicalAir	 Mechanical Air
		 Primary Liftable Sliding Sub-frame 			
Required Tire to Ground Clearance (Lifted Suspension)					
Axle Travel	Up (Jounce)				
Required	Down (Rebound)				
Axle Type	Track				
	Outside Diameter				
	Wall Thickness				
Tire Size					

NOTE: Indicate any trailer specific items that should be considered, such as under-trailer discharge tubes, loading ramps, etc., and provide their dimensional information.

PREFERRED SUSPENSION MODEL:

Has this model been used on similar trailer designs / applications before?
Q YES QNO

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: _____

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. 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.



TRAILER COMMERCIAL VEHICLE SYSTEMS 2070 Industrial Place SE Canton, OH 44707-2641 USA 866.RIDEAIR (743.3247) 30.489.0045 • Fax 800.696.4416 Hendrickson Canada 250 Chrysler Drive, Unit #3 Brampton, ON Canada L65 6B6 800.668.5360 905.789.1030 • Fax 905.789.1033 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

L633 Rev E 09-19

© 1998 - 2019 Hendrickson USA, LL.C. All Rights Reserved. All trademarks shown are owned by Hendrickson USA, LL.C., or one of its affiliates, in one or more countries. Information contained in this literature was accurate at the time of publication. Product changes may have been made after the copyright date that are not reflected.