H:HENDRICKSON

BUS / RV FRONT AND REAR SYSTEM APPLICATION APPROVAL REQUEST

DATE:			licationsubmittal	s@hendrick	son-intl.com	fax 1.630.910.2847
ATTN:						
APPLICATION APPROVA	L REQUESTER - REQUIRED	INFORMATION				
Company Name:		Mailing Address:				
Contact Person:		City, State	, Zip:			
Telephone:		E-mail Ade	dress:			
BUS TYPE SELECT ALL THAT APPLY	VEHICLE INFORMATIO	N				
□ Articulated □ Coach □ Midi	SUSPENSION APPLICATION SELECT ALL THAT APPLY: Commercial Defense Aftermarket Rear Suspension Conversion					
	Left Hand Drive Right Hand Drive					
Mini RV School	VIN #:					
□ Shuttle	Make:	Model:	Year:		Number of	Units:
Transit Other:	Maximum Load on Suspension (at the ground) Front: Rear: Rear:					
OPERATION	Maximum Gross Combination V	Veight (GCW) [.]	Maxin	num Gross Ver	nicle Weight (GVW)	
Country	Maximum Gross Combination Weight (GCW):					
On-Highway %						
Max. Grade %	Current Suspensio	on (Make / Model / Se	eries) on Vehicle	Initial	Demand	Annual Demand
Average Grade %		`	,			
Max. Grade Length: Implies Implies Km	FRONT					
No. of Passengers:	REAR					
EQUIPMENT INFORMATIO	ON					
TIRE INFORMATION		ENGINE INFORM	MATION D Front	or 🗆 Rear		
Make:		Engine Model:		Tr	ansmission Model:	
Front Size: R	Pear Size:	Engine Angle: 🗖 1°	°□2°□3°□4°	□ 5° St	eering Gear Model: _	
Front SLR: R	Pear SLR:	Peak HP:	hp		kW @	RPM
		Peak Torque:	ft. lbs.		Nm @	RPM
DRIVELINE RETARDER	/es □ No					
BRAKE INFORMATION		AXLE INFORMA	TION			

BRAKE INFORMATION		AXLE INFORMATIO	AXLE INFORMATION					
□ Air Brake <i>or</i> □ Hydraulic Brake			Make	Model	Ratio			
🗖 Disk Brake, Dia.:		STEER						
or Drum Brake, Dia.:	Width	DRIVE						
Make	Model	DRIVE AXLE DIMENSIO	ONS					
CBA/BAF		Dim. A	Dim. B	Dim. C				
FMSI No.:								

FRONT SYSTEM / STEER AXLE SYSTEM DESIRED - SELECT ONE



• For more information on Hendrickson suspensions visit www.hendrickson-intl.com

CURRENT DIMENSIONAL DIAGRAMS – FILL IN ALL APPLICABLE DIMENSIONS

DIAGRAM A - TOP VIEW

AXLE SEAT A1 Seat Width A2 Seat Length _____(150 mm typical) Х A3 Mounting Hole Y-Location Front **G** Leaf Spring Axle of A4 Mounting Hole X-Location Vehicle **A8** A5 Mount Hole Diameter Pitman Arm A6 Ball Joint i A6 Axle Centerline to Spring Centerline A1 (Dowel Y Location) **KPI** (Kingpin Intersection) A7 Dowel Hole Diameter **PITMAN ARM BALL JOINT** A2 Α7 **A8** Axle Centerline to Pitman Arm Ball Joint A12 A13 A4 **STEERING ARM BALL JOINT** A5 A9 Arm Length A10 A10 Arm Offset Δ9 A11 -TIE ROD ARM A11 Tie Rod Ball Y-Location A12 Tie Rod Ball X-Location WHEEL-CUT A13 Full Left & Right Hand Turn Angle $_$ °

Specify, measurements in \Box inches \Box millimeters

CURRENT DIMENSIONAL DIAGRAMS (CONT.) - FILL IN ALL APPLICABLE DIMENSIONS

DIAGRAM B - FRONT VIEW

Specify, measurements in \Box inches \Box millimeters

FRAME



DIAGRAM C - SIDE VIEW

AXLE

FRAME

C2 Ride Height

PITMAN ARM

C6 Length _

C4 X-Location



REAR SYSTEM DESIRED - SELECT ONE



• For more information on Hendrickson suspensions visit www.hendrickson-intl.com

AXLE BRACKET

If yes, what type:

*Bracket Part No

AXLE BRACKET

Furnished by Axle Manufacturer

Part of Axle □ Yes □ No

*Bracket Part No

Furnished by Axle Manufacturer

Part of Axle 🛛 Yes 🖾 No

□ Straddle □ Taper □ Thru Bolt

TRANSVERSE TORQUE RODS* OPTIONS

SELECT ONE

- Use existing Transverse Torque Rod
 TWO-PIECE
- ONE-PIECE Provide torque rod length (center to center)
 inches
 millimeters

Front

Rear _

FRAME BRACKET

□ Straddle □ Taper

V-ROD* OPTIONS

SELECT ONE

□ Use existing V-Rod

□ TWO-PIECE

□ ONE-PIECE – Provide V-Rod length (center to center) □ inches □ millimeters

Front _

Rear ____

4

FRAME BRACKET

□ Straddle □ Taper

NOTE: *Transverse Torque Rods or V-Rods are required for all rear air suspensions.

NOTE: * If the torque rod bracket part number is not available, provide the horizontal and vertical distance off the axle centerline, as shown in the graphic below. Specify, measurements are in \Box inches \Box millimeters



NOTE: * If the V-Rod bracket part number is not available, provide the horizontal and vertical distance off the axle centerline, as shown in the graphic below. Specify, measurements are in ☐ inches ☐ millimeters



CURRENT DIMENSIONAL DIAGRAMS - FILL IN ALL APPLICABLE DIMENSIONS

DIAGRAM D

Specify, measurements in \Box inches \Box millimeters



DIAGRAM E

Specify, measurements in □ inches □ millimeters



E10 Frame Slope

TERMS AND CONDITIONS

This Suspension Application Approval ("Approval") by Hendrickson Truck Commercial Vehicle Systems ("Hendrickson") is subject to, at minimum, the following terms and conditions:

- 1. This Approval is (i) general in nature, (ii) based solely upon the above-referenced information as provided by the REQUESTER and without Hendrickson's first-hand knowledge of such information, and (iii) does not account for any additional information regarding the subject vehicle's operating condition and configuration, or any unauthorized modifications or repairs that may have been conducted.
- 2. The subject application(s) and the installation, operation, service and maintenance of Hendrickson products and related components must comply with all applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson and the respective vehicle manufacturer. Contact Hendrickson for any additional copies of its applicable written materials.
- 3. This Approval does not account for, nor shall Hendrickson in any way be responsible for, any adverse effect on the system's form, fit or function of its products or any damage due to improper installation, operation, service or maintenance, unauthorized modification, neglect, accident, misuse, or operation beyond the written capacity ratings of the products or the vehicle to which such products and related components are attached.
- 4. This Approval is null and void if (i) any of the information provided by the REQUESTOR is incorrect or incomplete, or (ii) there is any deviation from the applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson and the respective vehicle manufacturer regarding the installation, operation, service and maintenance of the Hendrickson products and related components.
- 5. THIS APPROVAL DOES NOT CONSTITUTE AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- 6. Hendrickson reserves the right to modify this Approval, and any recommendations and/or prices if the above-referenced information provided by the REQUESTOR changes in any way. The REQUESTOR shall immediately notify Hendrickson's Engineering Department in writing of any/all changes in such information (including, but not limited to, vehicle frame, height, load, rear axle and tire size) that may affect the Hendrickson products.
- Hendrickson may need to obtain additional information from the REQUESTER, depending upon the scope and nature of the proposed application.

REQUESTER:

Authorized Contact Person:	Title:
Signature	Date:

FOR OFFICE USE ONLY			App
Suspension Recommended:	Bill of Material Number:	ica	
Approved by:	Date:	Customer Number:	tion No.
Comments:		CN Number:	

www.hendrickson-bus.com -



Truck Commercial Vehicle Systems 800 South Frontage Road Woodridge, IL 60517-4904 USA 1.866.755.5968 (Toll-free U.S. and Canada) 1.630.910.2800 (Outside U.S. and Canada) Fax 1.630.910.2899