



OEM FRONT SUSPENSION APPLICATION APPROVAL REQUEST

DATE: _____



applicationsubmittals@hendrickson-intl.com



1.630.910.2097

ATTN: _____

APPLICATION APPROVAL REQUESTER – REQUIRED INFORMATION

Company Name:	Mailing Address:
Contact Person:	City, State, Zip:
Telephone:	E-mail Address:

VOCATION SELECT ALL THAT APPLY

- Aerial/Ladder
- Beverage
- City Delivery
- Commercial Bus
- Concrete Mixer - Front Discharge
- Concrete Mixer - Rear Discharge
- Construction
- Crane / Boom
- Dry Freight
- Dump
- Fire / Pumper
- Heavy Haul
- Logger
- Milk
- Mining
- Oil Field
- Refuse - Front Loader
- Refuse - Rear Loader
- Refuse - Side Loader
- Refuse - Roll Off
- Rescue / Ambulance
- RV
- School Bus
- Snowblower / Snowplow
- Transit Mix
- Tanker
- Yard Tractor
- Other: _____

VEHICLE INFORMATION

SUSPENSION APPLICATION USE Commercial Defense Both

VIN #: _____

Make: _____ Model: _____ Year: _____ Number of Units: _____

Maximum Load on Suspension (at the ground): _____

Maximum Gross Combination Weight (GCW): _____ Maximum Gross Vehicle Weight (GVW): _____

Unsprung Weight: _____ Wheel Base: _____ Build Date: _____

Current Suspension on Vehicle (Suspension Make / Model / Series): _____

Initial Demand: _____ Annual Demand: _____

VEHICLE TYPE Tractor with Semi-Trailer Tractor with Full-Trailer Straight Truck Bus / Coach

Auxiliary Axle / Other _____ Front Engine Rear Engine

DRIVE AXLE – SELECT ONE

4x2

6x4

8x4

AUXILIARY AXLE – SELECT ONE

Drive Axle with Pusher Drive Axle with Tag

6x2

8x4

LEGEND

● Solid Wheel Indicates Drive Axle

OPERATION

Country _____

On-Highway % _____

Max. Grade % _____

Average Grade % _____

Max. Grade Length: _____

Miles Km

EQUIPMENT INFORMATION

BRAKE INFORMATION

Air Brake or Hydraulic Brake Peak Torque: _____ in. lbs.

Disc Brake, Dia.: _____

or

Drum Brake, Dia.: _____ Width _____

Make _____ Model _____

CBA/BAF _____

FMSI No.: _____

ENGINE INFORMATION – MANDATORY FOR AIR SUSPENSIONS

Engine Model: _____

Engine Angle: 1° 2° 3° 4° 5°

Peak HP: _____ hp _____ kW @ _____ RPM

Peak Torque: _____ ft. lbs. _____ Nm @ _____ RPM

Transmission Model: _____

Steering Gear Model: _____

DRIVE AXLE INFORMATION

Make: _____

Model: _____

Ratio: _____

TIRE INFORMATION

Make: _____ Rim Size: _____

Front Size: _____ Rear Size: _____

Front SLR: _____ Rear SLR: _____



FRONT SUSPENSION DESIRED – SELECT ONE



AIRTEK AIRTEK NXT



SOFTEK SOFTEK NXT



PARASTEER



IFS

STEER AXLE INFORMATION



STEERTEK NXT



STEERTEK

Model: _____

Rated Capacity: _____

AXLE DROP:

4.25" (108 mm)

5.36" (136 mm)

Other _____

CURRENT DIMENSIONAL DIAGRAMS – FILL IN ALL APPLICABLE DIMENSIONS

DIAGRAM A – TOP VIEW

Specify, measurements in inches millimeters

AXLE SEAT

A1 Seat Width _____

A2 Seat Length _____ (150 mm typical)

A3 Mounting Hole Y-Location _____

A4 Mounting Hole X-Location _____

A5 Mount Hole Diameter _____

A6 Axle Centerline to Spring Centerline _____
(Dowel Y Location)

A7 Dowel Hole Diameter _____

PITMAN ARM BALL JOINT

A8 Axle Centerline to Pitman Arm Ball Joint _____

STEERING ARM BALL JOINT

Single Steer *or* Twin Steer

A9 Arm Length _____

A10 Arm Offset _____

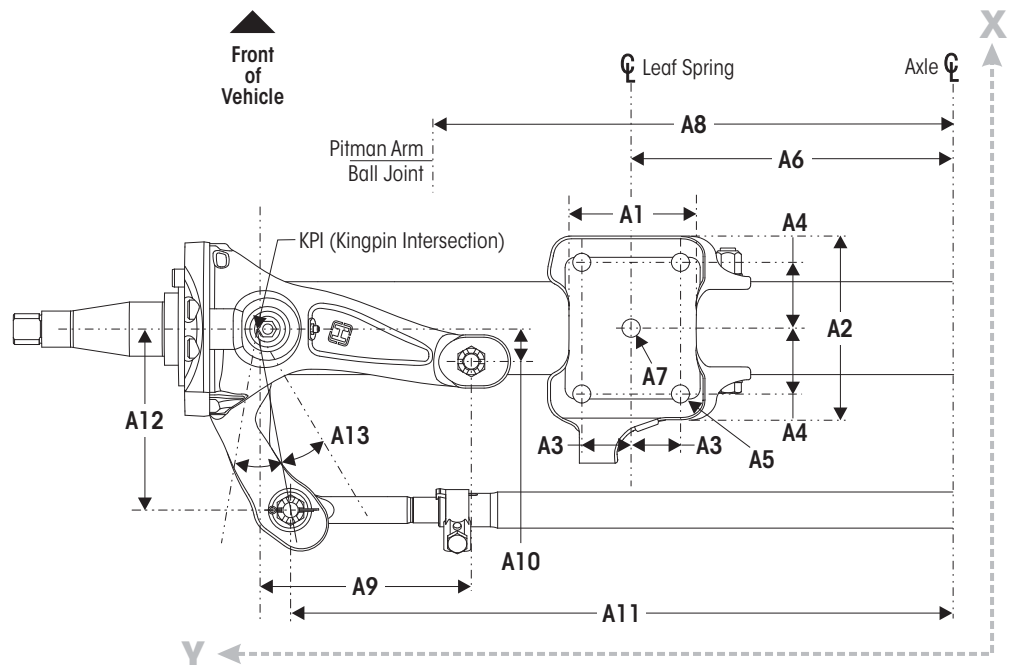
TIE ROD ARM

A11 Tie Rod Ball Y-Location _____

A12 Tie Rod Ball X-Location _____

WHEEL-CUT

A13 Full Left & Right Hand Turn Angle _____ °





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

DIAGRAM B – FRONT VIEW

Specify measurements in inches millimeters

FRAME

B1 Frame Width _____

B2 Section _____

B3 Flange _____

B4 Thickness _____

STEERING ARM BALL JOINT

B5 Steering Arm Drop _____

TIRE

B6 Inside Walls _____

B7 Track _____

B8 Tire Radius _____

AXLE

B9 Kingpin Inclination _____ °

B10 KPI Distance _____
(Kingpin Intersection)

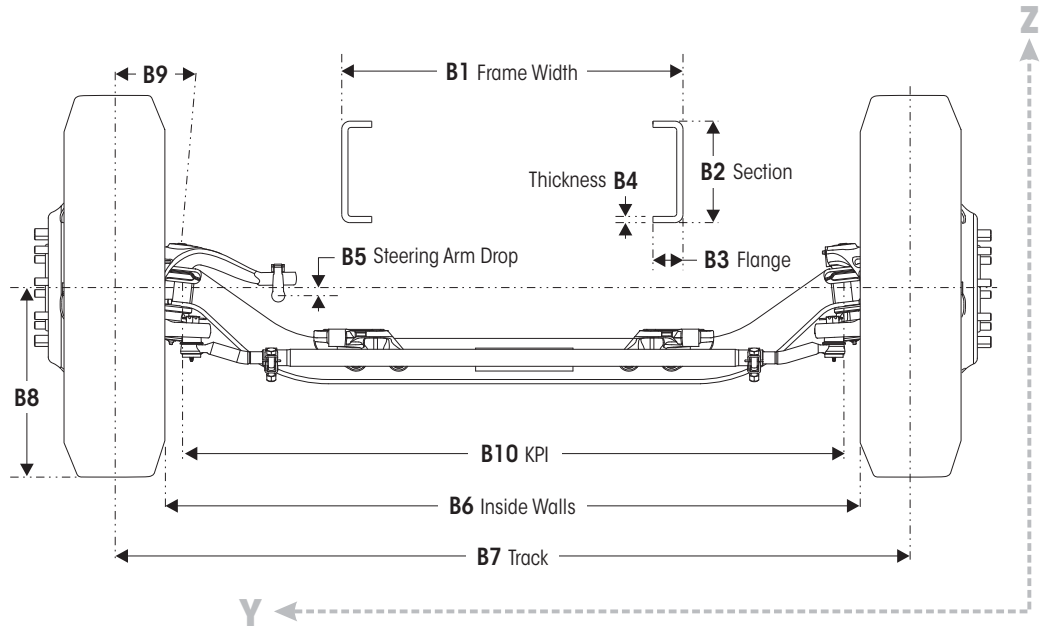


DIAGRAM C – SIDE VIEW

Specify measurements in inches millimeters

AXLE

C1 Caster Angle _____ °

FRAME

C2 Ride Height _____
(bottom of frame to centerline of the spindle)

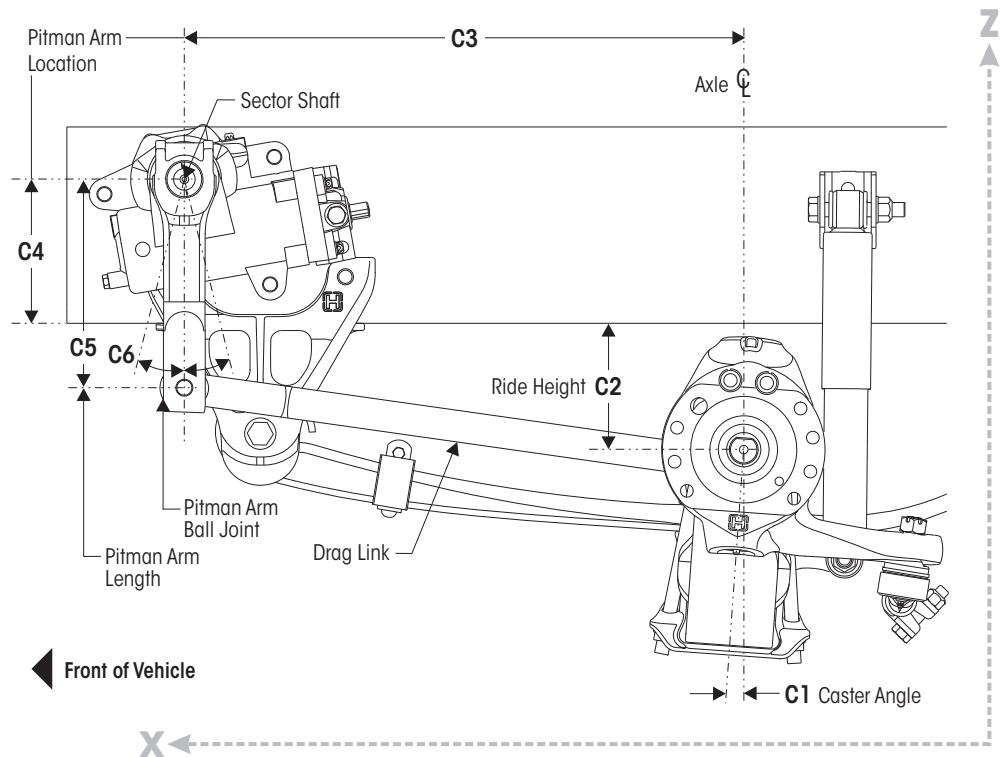
PITMAN ARM

C3 X-Location _____

C4 Z-Location _____

C5 Length _____

C6 Clocking _____ °





ADDITIONAL INFORMATION / CONCERNS PLEASE PRINT

Empty box for additional information or concerns.



WARNING

OVERLOADED SUSPENSIONS CAN CAUSE COMPONENT FAILURE, LOSS OF VEHICLE CONTROL, SEVERE PERSONAL INJURY OR DEATH. DO NOT EXCEED SUSPENSION CAPACITY RATINGS. DO NOT OPERATE AUXILIARY LIFT AXLES OR OTHER LOAD TRANSFERRING DEVICES IN ANY WAY THAT CAN OVERLOAD THE SUSPENSION.

TERMS AND CONDITIONS

This Front 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 suspension systems 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 suspension's form, fit or function or any damages due to improper installation, operation, service or maintenance, unauthorized modification, neglect, accident, misuse, or operation beyond the written capacity ratings of the suspension system or the vehicle to which such equipment and 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 suspension systems 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 suspension.
7. 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

Front Suspension Recommended:		Bill of Material Number:	Application No.
Approved by:	Date:	Customer Number:	
Comments:		CR Number:	

www.hendrickson-intl.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