

# HASSEMBLY INSTRUCTIONS

## HAULMAAX<sup>®</sup> EX • HAULMAAX<sup>®</sup>

SUBJECT: Aftermarket Shock Absorber Service Kits

LIT NO: 59310-012 DATE: June 2021

REVISION: E

#### INTRODUCTION

This publication is intended to assist maintenance personnel with the installation, on an as-needed basis, of HAULMAAX® EX • HAULMAAX® Aftermarket Shock Absorber Service Kits for vehicles not originally equipped with optional shock absorbers by the vehicle manufacturer.

Hendrickson requires shock absorbers for HAULMAAX EX • HAULMAAX rear suspensions to be used in tractor and logging applications. Shock absorbers may also improve HAULMAAX EX • HAULMAAX ride and traction in other applications. Ride performance can be subjective and may be dependent on many factors beyond the suspension design such as cab suspension, road conditions, body / auxiliary equipment, frame specifications, etc.

See Hendrickson publications 17730-328 (HAULMAAX EX) and 17730-244 (HAULMAAX) for complete safety and service instructions available online at www.hendrickson-intl.com.

Aftermarket Shock Absorber Kits						
KIT NUMBER	SADDLE HEIGHT					
64178-003	16½"					
64178-004	17½"•18¼"•18½"					
64178-009 • Mack Only	16½"					
64178-033	20¼" •20½"					
Kit Contents						
DESCRIPTION	QUANTITY					
Shock Absorber Assembly	Λ					

DESCRIPTION	QUANTITY				
Shock Absorber Assembly	4				
Upper Shock Bracket	4				
Upper Shock Bracket Fastener Kit	As Req.				
Lower Shock Front Bracket	2				
Lower Shock <b>Rear</b> Bracket	2				
Lower Shock Bracket Fastener Kit	As Req.				
NOTE: Shock bracket to frame fasteners are not included in the kit.					

## **WARNING**

WARNING

DO NOT USE THESE AFTERMARKET SHOCK ABSORBER

SERVICE KITS IN CONJUNCTION WITH DUAL 315 mm WIDE TIRES. THE KITS INCLUDE LOWER SHOCK MOUNTING BRACKETS THAT CAN INTERFERE WITH 315 mm TIRES AND CAUSE TIRE DAMAGE AND POSSIBLE ADVERSE VEHICLE HANDLING, PERSONAL INJURY OR PROPERTY DAMAGE.

A TECHNICIAN USING A SERVICE PROCEDURE OR TOOL WHICH HAS NOT BEEN RECOMMENDED BY HENDRICKSON MUST FIRST SATISFY HIMSELF THAT NEITHER HIS SAFETY NOR THE VEHICLE'S SAFETY WILL BE JEOPARDIZED BY THE METHOD OR TOOL SELECTED. INDIVIDUALS DEVIATING IN ANY MANNER FROM THE INSTRUCTIONS PROVIDED WILL ASSUME ALL RISKS OF CONSEQUENTIAL PERSONAL INJURY OR DAMAGE TO EQUIPMENT INVOLVED.

## SHOCK ABSORBER ASSEMBLY

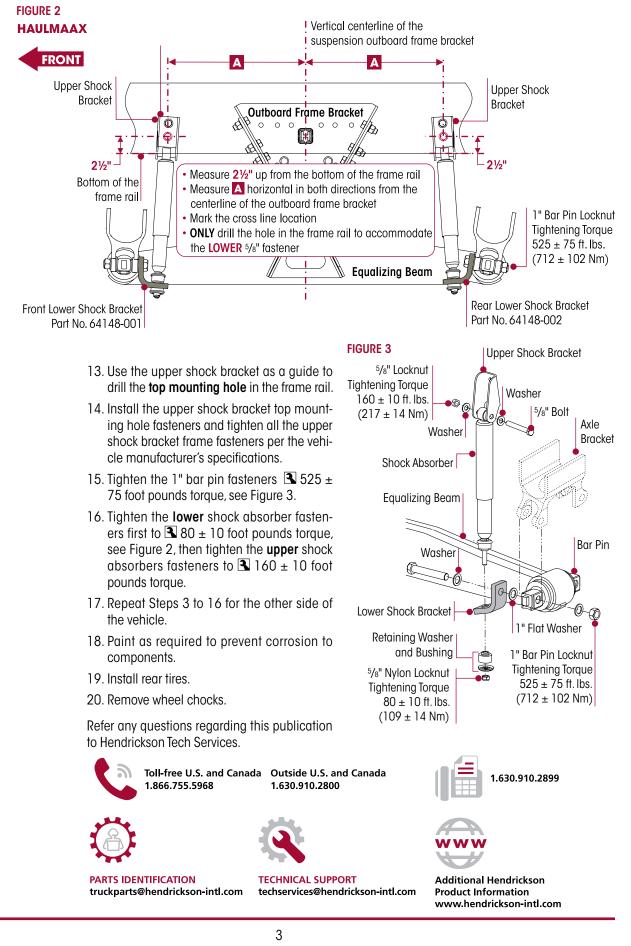
#### INSTALLATION

- 1. Chock the front wheels of vehicle to prevent movement during installation.
- 2. Support rear axles and frame on stands and remove rear tires.
- 3. On one side of the suspension, starting at the vertical centerline of (frame hanger/outboard frame bracket), measure A both directions horizontally along the vehicle frame rail and draw a vertical line, see Figure 1. See Table 1 to determine the correct upper shock bracket vertical hole locations based upon the vehicle's rear axle spacing.





	4.	4. Measure up from the bottom of the frame rail $2\frac{1}{2}$ "		TABLE 1				
	and draw a horizontal cross line for the <b>lower</b> <b>hole position</b> of the upper shock bracket, see Figures 1 and 2.		or the <b>lower</b>	Rear Axle	Horizontal Hole Location			
				bracket, see	Spacing	Measurement A		
				52"	18½"			
NOTE			le is already in the frame		54"	19½"		
			n, move the location fo	,	60"	22½"		
			e existing hole. <b>DO NOI</b> tain the 2½" distance f		72"	28¾"		
	tor	tom of the frame rail) of the hole to accommod existing hole.				ure A in both directions. From the rline of the outboard frame bracket		
	5.	<ol> <li>Drill ONLY the upper shock bracket LOWER HOLES at the two locations in the frame rail to accom modate the <sup>5</sup>/<sub>8</sub>" bolts, see Figures 1 and 2.</li> </ol>						
	6.	· · · · · · · · · · · · · · · · · · ·						
NOTE		e Aftermarket ver shock bra		ger replaceme	nt bar pin bo	olts needed to accommodate the		
	7.	7. Remove and discard the existing bar pin fasteners from the outboard side of the equalizing beam						
NOTE	(M En	ack Service K	it No. 64178-009) which er bracket is used prior	h uses the san	ne lower sho	ock brackets vary for only one OEN ck bracket for both front and rear shock bracket, part numbers are		
	9.	must be loca Repeat Step	ated between the lower s 8 for the <b>REAR</b> lower sh	shock bracket o ock bracket (Po	ind the axle l art No. 64148	nd new fasteners. A 1" flat washe bracket, as shown in Figure 3. 3-002). <b>DO NOT</b> tighten at this time.		
	11		wer end of the shock ab: teners. <b>DO NOT</b> tighten t			bracket and snug the <b>lower</b> shock		
	12					t bracket and install the lower hole https://www.com/commonstance/commonstance/commonstance/commonstance/common		
	FIGURE 1 HAULMAAX EX	X		Vertical cente suspension fr				
	Upper Sh Bra 23 Botto fr	cket m of the ame rail	• Measure 2½" up from 1	in both directions ard frame bracke ation ne frame rail to a r	e frame rail s from the t	Upper Shock Bracket 21/2" 1" Bar Pin Locknu Tightening Torque 525 ± 75 ft. lbs. (712 ± 102 Nm)		
	Front Lower Shoc Part No. 64					Rear Lower Shock Bracket Part No. 64148-002		



#### Call Hendrickson at 1.866.755.5968 (toll-free) or 1.630.910.2800 for additional information.



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