Title:	**Severe Duty Suspension Torque Rod Replacement**		
Number:	**PB_633**	**Release Date:**	**6/20/2023**
Revision Number:	**Not Applicable**	**Revision Date:**	**Not Applicable**
Chassis Type:	**All Custom Chassis Equipped with Air Ride, Rubber Spring, and Steel Tandem Spring Suspension Systems**		
Component Description:	**Hendrickson® TRAAX ROD® Torque Rods**		
Warranty:	**Not Applicable**		
Parts:	**Not Applicable**		
Tools:	**Not Applicable**		

Subject:

Current air ride suspension system torque rods are being replaced with Hendrickson® TRAAX ROD® torque rods to handle more demanding suspension loads for severe-duty applications.

Purpose:

This bulletin will provide instruction to measure current torque rod specifications to ensure that the correct Hendrickson® TRAAX ROD® torque rods and shims (if applicable) are ordered for replacement, if desired to change to. These torque rods and their bushings have a significantly increased component life for severe-duty applications versus standard torque rods and bushings.

Procedure:

1. Measure center of bushing eye to center of bushing eye.
2. Determine length in millimeters.
3. If the length does not end in 0mm or 5mm, round down to the nearest increment.
4. Use Hendrickson® TRAAX ROD® Smart Numbering System (See *Figure 1*) to determine torque rod specifications.
5. Open a technical support incident on Pierceparts.com to get the appropriate torque rods ordered.

NOTE:

- **Suspension system should be inspected annually. If you notice excessive wear of torque rod bushings, please open a technical support incident on Pierceparts.com for replacement parts.**
- **Hendrickson® TRAAX ROD® torque rods lengths are measured in increments of 5mm. If torque rod measurement is not an increment of 5mm, round down to the nearest 5mm increment.**
- **Depending on length of torque rods, shims may be required to be installed with torque rods. If required, these shims (Pierce P/N: 82-1032-0063 or 82-1032-0088, depending on suspension rating) need to be ordered with the torque rods.**

The **TRAAX ROD** family uses the **Smart Numbering System**, in which each digit signifies the body style, bushing combination, bushing hole diameter, bushing clocking angle and the torque rod length.

TRAAX ROD SMART NUMBERING SYSTEM

82XX–XX XX–XXX

- **Body Style**
- **Bushing Combination**
- **Bushing Angle Bushing 1**
- **Bushing Angle Bushing 2**
- **Torque Rod Length** (in 5 mm increments)

82XX–XXXXX–XXX

TRAAX ROD BODY STYLE

BUSHING COMBINATION

		BUSHING 1				BUSHING 2			
		STRADDLE		TAPER		STRADDLE		TAPER	
		Hole Diameter	A Mounting Center	B Length	C Thread	Hole Diameter	A Mounting Center	B Length	C Thread
HEAVY-DUTY	40	5/8"	4 3/8"			5/8"	4 3/8"		
	41	3/4"	4 3/8"			3/4"	4 3/8"		
	44	5/8"	4 3/8"					3"	1 1/4"
	45	3/4"	4 3/8"					3"	1 1/4"
SEVERE-DUTY	30	5/8"	4 3/8"			5/8"	4 3/8"		
	32	7/8"	5 1/4"			7/8"	5 1/4"		
	33	5/8"	4 3/8"					3"	1 1/4"
	35	7/8"	5 1/4"					3"	1 1/4"
	36			3"	1 1/4"			3"	1 1/4"

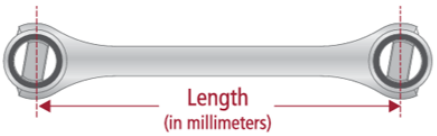
Recommended for 40K to 52K pound capacity suspensions in most vocational applications.

Recommended for 60K to 70K pound capacity suspensions or 40K to 52K pound capacity suspensions for even longer service intervals.

82XX–XXXX–XXX

TORQUE ROD LENGTH

In five (5) millimeter increments



82XX–XX XX–XXX

BUSHING ANGLE[1]

Code	Degree[2]
00	0°
01	5°
02	10°
03	15°
04	20°
05	25°
06	30°
07	35°
08	40°
09	45°
51	-5°
52	-10°
53	-15°
54	-20°
55	-25°
56	-30°
57	-35°
58	-40°
59	-45°
98	Taper Up[3]
99	Taper Down

1. Contact Hendrickson for additional bushing angles.
2. Clocking angle is ± 2° degrees.
3. Taper up bushing angle available only for 8236 series.

Figure 1