

# TECHNICAL BULLETIN

## ALL MODELS TRUCK AIR SUSPENSION TORQUE ROD UPDATE ULTRA ROD

**No:** TRUCK AUS-013  
**Subject:** *Product Update*  
**Date:** December 2000 **Revision:** A



As part of our continuous product improvement program, Hendrickson has released a new style torque rod known as the Ultra Rod<sup>®</sup>. This change is effective immediately.

All existing OEM and aftermarket suspension kits supplied by Hendrickson will include the Ultra Rod. Existing conventional rods will be phased out, however kit part numbers will remain unchanged with the level of the kit incremented one level:

e.g. HAS400-V101A Rev 2 would become  
HAS400-V101A Rev 3.

### Description

Hendrickson has incorporated the following features in the Ultra Rod:

- ? **LIGHTER WEIGHT**, Through computer optimised design, Ultra Rod is lighter and more compact than conventional rods.
- ? **GREATER STRENGTH**, The rod ends are integrally forged with the shaft. On the two-piece coupling end, the connection tube is forged out of the shaft, eliminating the assembly weld.

- ? **DURABLE BUSHING**, Hendrickson has bonded the inner metal of the bushing to the rubber, which eliminates slippage. By eliminating friction, generated by heat, product service life is extended.
- ? **EASY TO REBUSH**, Bonded bushings eliminate the outer metal sleeve, making re-bushing faster and easier with no special tools required.

**Identification**

The Ultra Rod can be identified by its part number, which is stamped on the shaft.

The Ultra Rod end is also smaller (2.5”Dia) than former Hendrickson torque rods (3.5”Dia). Refer Figure 1.

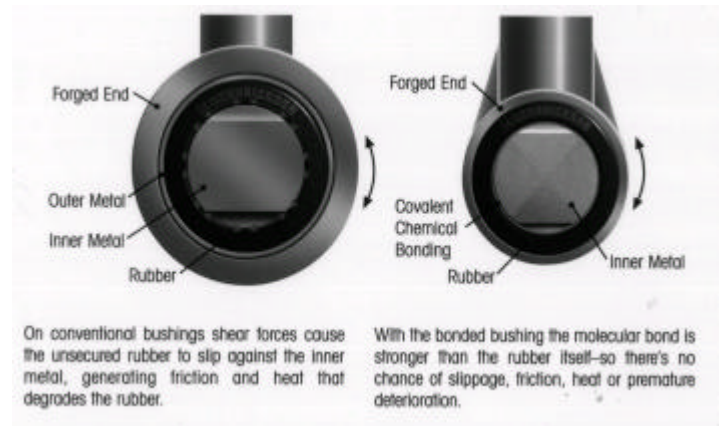


Figure 1

**Ultra Rod Part Numbers**

ULTRA ROD TWO PIECE COMBINATIONS						
TUBE END	**SPACER END	27"	35"			
66610-000H	[Diagram]	66661-000H	66660-000H	Straddle		
		66691-000H	66690-000H	Straddle — Taper Stud (Length 1 1/2" — Mack Only)		
		66671-000H	66670-000H	Straddle — Taper Stud (Length 2")		
66620-000H	[Diagram]	66671-000H	66670-000H	Taper Stud — Can Install in Up (Length 2") Or Down Position		
66769-000H		66691-000H	66690-000H	(Length 1 1/2") Mack Only		
*66640-000H	[Diagram]	66701-000H	66700-000H	For Navistar Only		
66610-000H				Navistar Straddle — Inner Sleeve		
66650-000H				Standard Straddle — Inner Sleeve		
NOTE: * 66640-000H has offset holes and is not interchangeable with 66610-000H. ** Spacer Ends required for assemblies up to 27" and 35" centers.						
REPLACEMENT CARTRIDGES FOR ULTRA ROD TWO PIECE TORQUE RODS						
STRADDLE		TAPER		THRU BOLT		
[Diagram]	47691-000H	[Diagram]	*2" Stud: 64809-000H	[Diagram]	1 1/2"	Navistar Inner Sleeve: 65477-000H
[Diagram]	Navistar Straddle: 66734-000H (Offset Pin)	[Diagram]	*1 1/2" Mack Stud: 66735-000H *Taper Stud Length			

## Torque Rod Replacement

The Ultra Rod<sup>®</sup> replaces the former Hendrickson two-piece torque rod product.

To ensure proper measurement for torque rod replacement, check for the following:

- ? If torque rod being replaced is an Ultra Rod measure centre of end hub to centre of end hub of the old torque rod. Make the new torque rod the same length.
- ? If the old torque rod is not an Ultra Rod it is important to verify how the torque rod is mounted, and then measure as shown in Figures 2, 3 and 4.

### Outside Mount

Measure centre to centre of old torque rod. Make the new torque rod the same length.

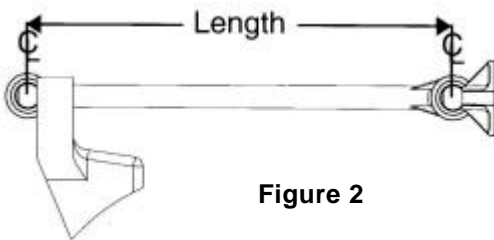


Figure 2

### Taper Pin to Straddle Pin Mount

Measure centre to centre of old torque rod and add 1/16" to make new torque rod.

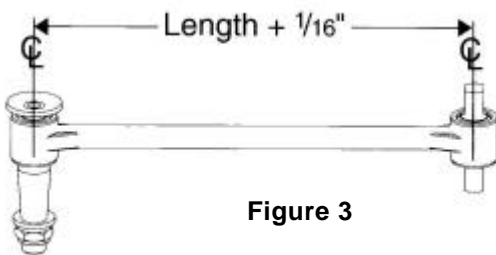


Figure 3

### Inside to Inside Mount

Measure from the centre of the old torque rod and add 1/8" to make new torque rod.

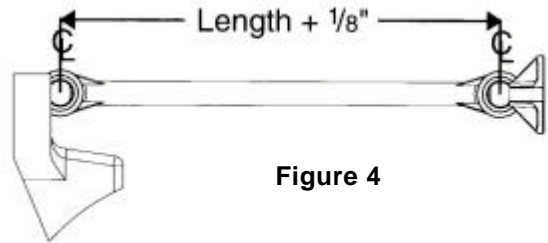


Figure 4

**The Ultra Rod is also available as complete fixed length rods with 5mm increments**

**NOTE: Not suitable for use on AR2 suspensions.**

If any further installation detail or assistance is required, contact the Hendrickson Customer Service Department on (03) 9767 3400.

**WARNING - HENDRICKSON REMINDS USERS TO ADHERE TO THE PUBLISHED CAPACITY RATINGS FOR SUSPENSIONS. DO NOT MODIFY PARTS OTHER THAN OUTLINED IN THIS PUBLICATION.**

**USE OF A MODIFIED OR SUBSTITUTE PART IS NOT RECOMMENDED BECAUSE THE PART MAY NOT MEET HENDRICKSON'S SPECIFICATIONS, WHICH COULD LEAD TO FAILURE OF THE PART, LOSS OF VEHICLE CONTROL AND PERSONAL INJURY.**