



PIL #23-002

Tie Rod Assembly Cross Reference: TRW to Urresko

Date: March 2023
 Subject: Tie Rod Assembly Cross Reference: TRW to Urresko
 Models: FG941 / FG943 / MFS66

Product Information Letter #23-002

Dear Customer,

Cummins-Meritor Australia wants to update our customer base about our legacy tie rod assemblies that were previously used in MFS66 and FG941 steer axle production. Legacy PNs were TRW tie rods that are not available in Aftermarket.

Urresko (USK) tie rods are the current production tie rods. USK tie rod assemblies were given new part numbers which replaced the legacy TRW part numbers; however our axle specifications remained unchanged.

Tie Rod Assembly Design Summary:

USK tie rod assemblies are dimensionally different compared to TRW but functionally the same. The changes are in tube outside diameter, wall thickness, tube length and tie rod ends. Refer to the table below for details and cross reference between TRW and USK tie rod assemblies.

Tie rod Option (Axle Spec)	Wheel Base (mm)	TRW Tube Dimensions (mm)	USK Tube Dimensions (mm)	TRW Part Number (Tie Rod Assy)	TRW Tie Rod Ends	USK Part Number (Tie Rod Assy)	USK Tie Rod Ends
T	3429 4318	Outer Diameter 44.45mm Wall Thickness 6.35mm Tube Length 1515mm	Outer Diameter 48.26mm Wall Thickness 5.08mm Tube Length 1524mm	A2-3102-L-4380	A-3144D524 A-3144E525	B1-3102-L-4770	A-3144T1190 A-3144U1191
U	4343 5334						
V	5359 6096	Outer Diameter 44.45mm Wall Thickness 6.35mm Tube Length 1545mm	Outer Diameter 42.16mm Wall Thickness 4.85mm Tube Length 1562mm	A2-3102-G-3465	A-3144E525 A-3144D524	B1-3102-E-4737	A-3144T1190 A-3144U1191
W	6121 7874						

Table 1 - TRW and USK Tie Rod Assembly Cross Reference

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TRW uses Type T20, 7,500 lbs capacity tie rod ends and USK uses Type T24 Hybrid, 8,500 lbs capacity tie rod ends.

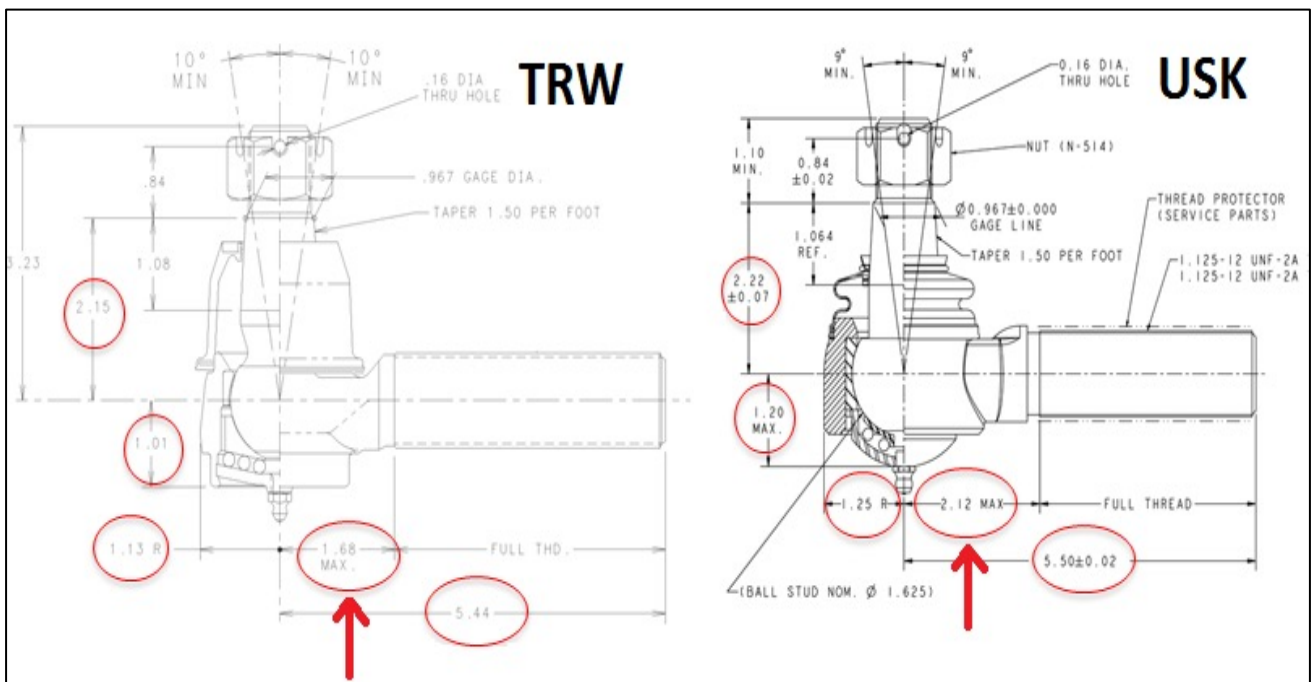


Figure 1 - TRW and USK Tie Rod End Engineering Drawings

Tie rod ends are not interchangeable between TRW and USK. The primary reason is that the distance from the ball joint centre to the start of the thread for the cross-tube is shorter on the TRW parts (1.68" vs 2.12").

There is potential risk of running out of thread before achieving the required centres if USK tie rod end is used with a TRW tube. Part marking differences between TRW and USK Tie Rod Ends are provided in Figures (2a),(2b) and (3a),(3b) overleaf.

Meritor recommends replacing any TRW tie rod assembly with its equivalent USK tie rod assembly.

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TRW Tie Rod Ends



(Figure 2a)



(Figure 2b)

Urresko Tie Rod Ends



(Figure 3a)



(Figure 3b)

If you have any questions relating to the above, please contact a Meritor Australia representative on +61 (03) 9300-5200.

For additional information on our range of steer axles please refer to the Maintenance Manual MM2, located on Meritor.com - Literature on Demand webpage.

**Issued by Product Engineering
Meritor HVSA Ltd**

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