

## **Part# DS34TB-X Track Bar Del-Sphere™ Pivot Joint Instructions & Notes**

The Del-Sphere™ pivot joints are slightly greased for assembly purposes. The bushings inside of the Del-Sphere™ pivot joints are made of Delrin®, which is self-lubricating. We do not recommend greasing the pivot joint any further than as it is supplied as further grease will only attract and retain dirt and grit. The pivot joints are equipped with grease fittings simply because we know certain customers would want/request them no matter what we say.

Our Del-Sphere™ pivot joints are 100% rebuildable. We doubt you will ever need to rebuild them, but they certainly can be. The Delrin® bushings should last the life of your vehicle. To disassemble the joint remove the snap ring using a snap ring pliers. Re-assembly will require the use of a press (or vise) to push the bushings in hard enough to be able to re-install the snap ring.

**Dimensions:** This track bar Del-Sphere™ assembly must be mounted inside of a minimum 1-9/16" i.d. mounting bracket to insure the housing does not contact the bracket at full rotation. The joint will provide for 22° of articulation. The housing has a 2.05" outside diameter and is 1.20" wide. The ball is 0.875" wide and has a 0.75" through hole. The thread length is 2.50" and the size is 3/4"-16. The overall length of the joint end to end is 4.92". The length from the center of the ball hole to the start of the threads is 1.50". The length from the center of the ball hole to the end of the threads is 4.0".

**What is a Del-Sphere™ pivot joint?** Think of the Del-Sphere™ pivot joint as a Delrin® bushed spherical rod end. Designed and manufactured exclusively by Spohn Performance, we have taken suspension performance to the next level. This Del-Sphere™ pivot joint features a one piece forged and heat treated 4130 chrome moly housing, a heat treated and hard chrome plated chrome moly spherical ball, Delrin® bushing races, heat treated retainer washer and snap ring, an external grease fitting, and a beautiful silver zinc plated housing finish. The Delrin® bushing races absorb shock and road noise so you get the quiet and smooth ride of a bushing as well as **22° of rotation!**

**What is Delrin®, and why did you choose to use it?** Delrin® is an acetal homopolymer made by DuPont. It is characterized as having an excellent combination of physical properties that make it suitable for numerous applications. With extremely low moisture absorption and a low coefficient of friction (self-lubricating), Delrin® is uniquely tailored for wear applications in high humidity or moisture environments. Delrin® will maintain constant physical properties under high moisture conditions and out-perform Nylon or polyurethane under these conditions. Delrin® has a 10,000 psi tensile strength and a 120 Rockwell Hardness rating making it ideal for our Del-Sphere™ pivot joint application.

### **Replacement Parts:**

<b>Part #</b>	<b>Description</b>
DS34TB-RH	Forged Track Bar Del-Sphere™ Assembly - 3/4"-16 RH x 3/4" Bore
DS34TB-LH	Forged Track Bar Del-Sphere™ Assembly - 3/4"-16 LH x 3/4" Bore
DS34TB-Wash	Track Bar Del-Sphere™ End Washer
DS34TB-SR	Track Bar Del-Sphere™ Snap Ring
DS34TB-Bush	Track Bar Del-Sphere™ Delrin® Bushing (2 per assembly)
DS34TB-Ball	Track Bar Del-Sphere™ Hard Chrome Plated Spherical Ball