



Watson Suspension Systems

Addendum **Final alignment for Eccentric Collar With Locknut**

Final Alignment of the axle is very important. If done properly, will provide a low maintenance connection at the pivot of the suspension. After several years of wear, it is normal to replace the bushing. **If the alignment is not correct, the bushing can wear prematurely and/or make the trailer track out causing tire wear.**

Sequence for alignment for Eccentric Collars:

1. Tires must be the same size, diameter, and inflation pressure.
2. The suspension must be at the correct ride height to align properly. This can be done by adjusting the landing gear or using jacks to support the trailer. If the trailer is upside down to mount suspension, the axles may be blocked to the proper ride height. Trailer and axles must be level. Refer to **Figure 1** and make sure ride height is true on **both** sides of the trailer frame.
3. Start out with the Adjustment-Square vertically aligned with pivot as shown in **Figure 2**.
4. Snug up one hanger so that the collars cannot rotate.
5. Using 1/2" break overs and/or ratchets, rotate the other two collars on the other hanger so the suspension moves forward or backward to allow the distance from center of spindle to kingpin (**Figure 3** Dimension **A & B**) to be equal distance within 1/8". **Note: Rotate inside and outside Eccentric Collar together at the same time.**
6. Snug up pivot bolt so the collar cannot move.
7. Re-Check alignment before proceeding. **If more suspension movement is needed to align, loosen the centered collar (unadjusted hanger) and rotate it to allow for more movement. IMPORTANT: You must move inside and outside Eccentric Collars together. The square hole must line up with the inner and outer collar so collar remains flush against hanger side plate.**
8. Make sure axles protrude evenly on both sides from frame. **Figure 3** dimensions **E** and **F** must be within 1/4" of each other.
9. Tighten locknuts to 800-1000 ft-lbs. Note: Weldment not required.
10. Additional suspensions should be aligned per **Figure 3** using the **C & D** dimensions with only 1/16" maximum variations.

....Final alignment for Eccentric Collar Type continued

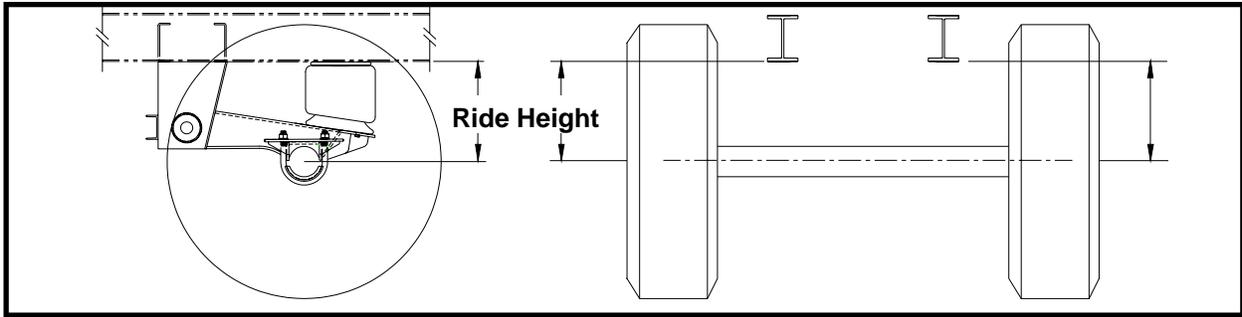


Figure 1

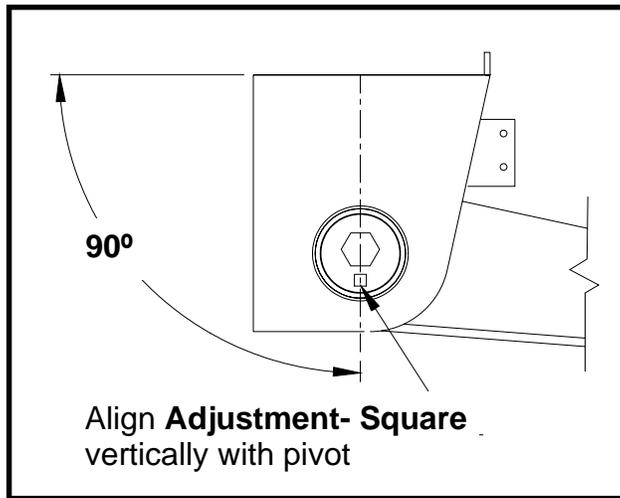


Figure 2

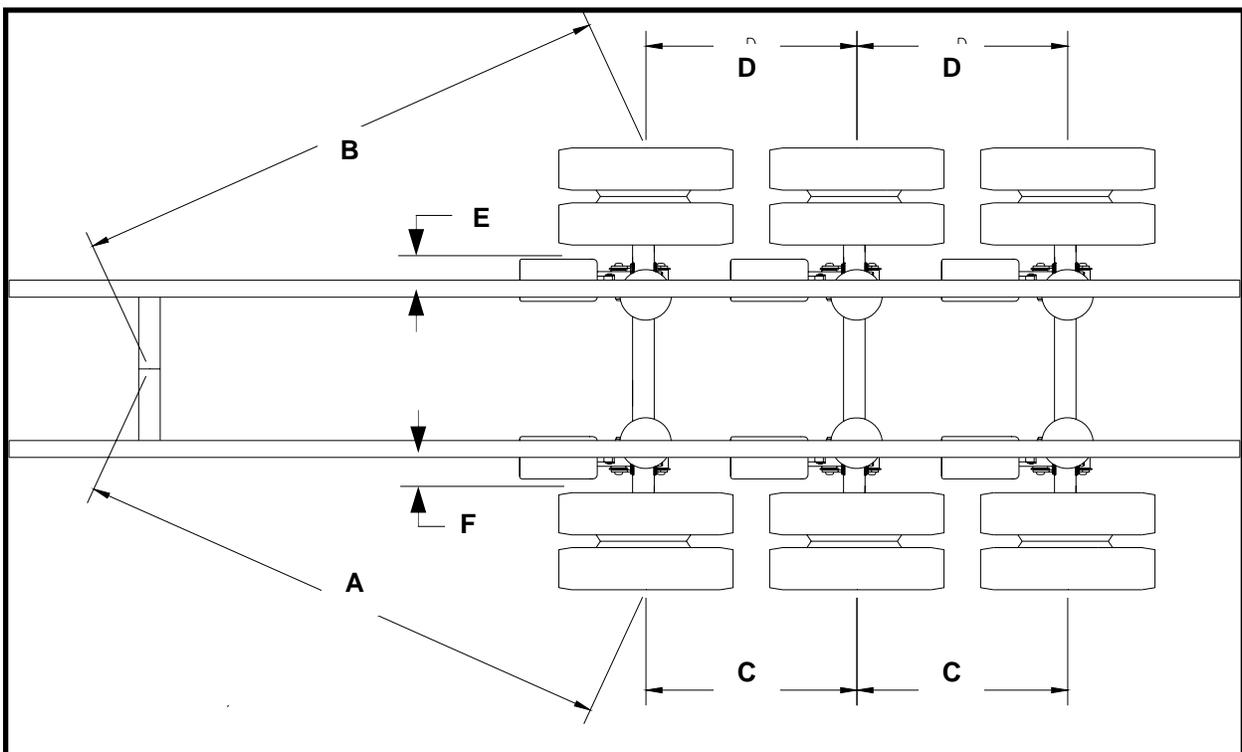


Figure 3