

PART NO. 23510, 23520, 23530, 23540

OFFSET BALL JOINT - INSTRUCTION SHEET

Plan Ahead - Read All Instructions **BEFORE** installing part.

This part should only be installed by personnel who have the necessary skill, training and tools to do the job correctly and safely. Incorrect installation can result in personal injury, vehicle damage and / or loss of vehicle control.

INSTRUCTIONS

1. Before beginning any alignment always check for loose or worn parts, tire pressure and odd tire wear patterns. Determine amount of camber and caster change needed.
2. Remove tire and wheel assembly, tie rod end from knuckle, caliper, rotor and axle nut. Remove spindle and hub assembly then remove axle from housing using care not to damage the axle seal. (**NOTE:** It may be necessary to use a hub puller #499).
3. Loosen, **but do not remove** lower ball joint nut. Loosen and remove the upper ball joint nut.
4. Break tapers between the upper and lower ball joints and the knuckle. While supporting the knuckle, remove the lower ball joint nut then remove the knuckle.
5. Press out the O.E. upper ball joint.
6. Attach the correct template for the side being adjusted to the top of the axle yoke.
7. Place the offset ball joint in the appropriate position by aligning the indicator mark on the ball joint with desired change mark on the template.
8. Using the #23580 installation sleeves and a #7250 ball joint press, press the offset ball joint half way into the axle yoke. (**NOTE:** See instructions included with #23580 sleeves for correct installation use). Recheck to insure that the indicator mark is in the correct position then tear and remove the template. Now, continue to press the ball joint into the yoke until it is fully seated.
9. Install dust boot and grease zerk. (**NOTE:** The grease zerk is self tapping, just screw it in with the appropriate socket or wrench. **Use care not to over tighten**). Grease ball joint.
Always check for proper clearance between suspension components and other components of the vehicle.
10. Reassemble in reverse order of disassembly. Reinstall tire and wheel assembly and compensate alignment equipment.
11. Check adjustment made, set toe and road test the vehicle.
12. After install, grease every 3000-5000 miles, for best service life. Grease more often when used off-road. (**NOTE:** Use of power grease guns may damage ball joints.)



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