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FORD SUPER DUTY DANA 60 BALL JOINT CASTER SLEEVE 2.4 DEGREE

Installation Instructions

Applications:
2005+ Ford F250/F350 4X4



TITLE:
**FORD SUPER DUTY DANA 60 BALL JOINT
CASTER SLEEVE 2.4 DEGREE INSTALL
INSTRUCTIONS**

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FORD SUPER DUTY DANA 60 BALL JOINT CASTER SLEEVE 2.4 DEGREE INSTALLATION INSTRUCTIONS

Thank you for purchasing the best aftermarket products available for your vehicle. We strongly feel that the parts you are about to install should meet or exceed your expectations for performance. Proper assembly is critical to the performance of these components and the vehicle as a whole. Please take the time to carefully read these instructions and familiarize yourself with the installation procedure before working on your vehicle. If you have any questions PLEASE contact Synergy Manufacturing BEFORE beginning installation. Thanks again for supporting Synergy – enjoy the performance benefits of the best aftermarket products available for your vehicle!

Synergy Manufacturing
Phone: (805) 242-0397
Email: support@synergymfg.com

Modifying or otherwise altering vehicle components may cause the vehicle to handle differently than originally designed. It is the driver's responsibility to familiarize themselves with the performance and handling characteristics of the modified vehicle. Vehicles with larger diameter than stock tires must be driven carefully and cannot be expected to perform as stock or meet OEM performance with regard to handling, braking, or crash performance. Ensure all replacement components are compatible with vehicle capacities so as not to overload components, especially tires. It is up to the individual to ensure that the vehicle and all components are compatible with the intended vehicle use, including load ratings, road conditions, and driver abilities. Thorough and frequent vehicle inspections are recommended to ensure a safe and reliable state of readiness, especially after off-highway use.



Parts List – DANA 60 BALL JOINT CASTER SLEEVE 24 DEGREE

8612-24 SUPER DUTY DANA 60 BALL JOINT CASTER SLEEVE 2.4 DEGREE		
QTY	Part Number	Description
2	861224-01	SUPER DUTY BALL JOINT DANA 60 CASTER SLEEVE
2	CP-0125-11	COTTER PIN, 1/8" X 1.25", ZINC PLATED

General Notes

- These instructions are also available on our website; www.synergymfg.com. Check the website before you begin for any updated instructions and additional photos for your reference.

Tools Needed

- 1-1/8" socket and ratchet
- Pliers
- Hammer and Chisel
- Flat Head Screw Driver

Estimated Installation Time:

~30 Minutes

Installation

1. Raise and support the vehicle so no weight is on the front tires, and remove the front tires.
2. Remove the cotter pin and 1-1/8" head nut on the upper ball joint. **See Figure 1**



Figure 1. Drivers Side Nut and Cotter Pin Removed from Upper Ball Joint.

3. Depending on the condition of the knuckle, you may need to hit the front and back of the C with a large hammer to dislodge the factory caster shim. **See Figure 2**



Figure 2. Dislodging the Factory Caster Shim.

4. Use a hammer and chisel to drive the factory caster shim out of the knuckle. See **Figure 3**

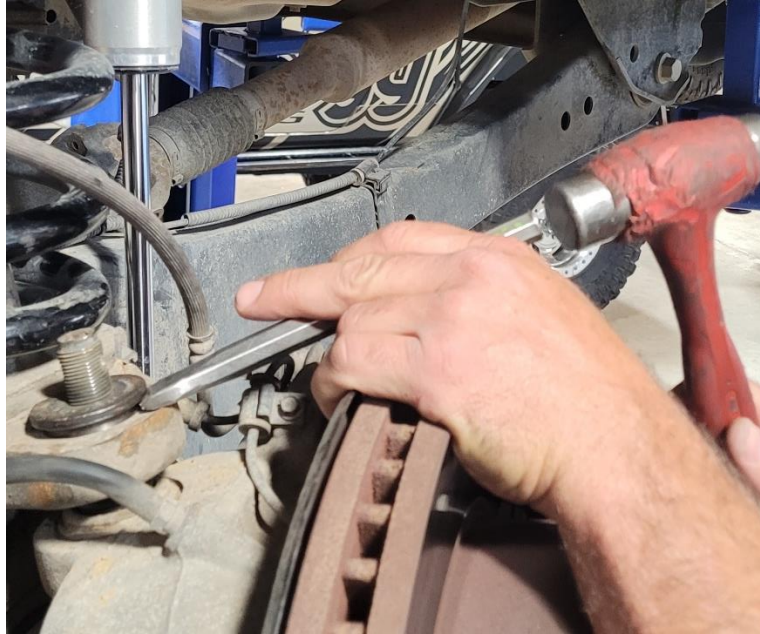


Figure 3. Using a Chisel to Drive Out the Old Shim.

5. Install the Synergy Caster Shim on the ball joint stud with the arrow facing forward, See **Figure 4**. Lift the hub and move it around while pushing down on the caster shim to get it started.



Figure 4. Start the Shim with the Arrow Pointing Forward.

6. Using the 1-1/8" socket, **lightly** tap the Caster Shim into place, **See Figure 5.**



Figure 5. Tapping the Shim Into Position.

7. Due to the Caster Shim Geometry and manufacturing tolerances, the caster shim can be rotated a few degrees. This rotation will affect the camber of the truck; turning the front of the shim in will yield positive camber, turning the front of the shim out will yield negative camber. **See Figure 6.** Set the camber as close to 0 as possible.



Figure 6. Rotating the Shim With a Screw Driver to Fine Tune Camber.

8. Torque the Caster Shim to 69 ft. lbs. and install the supplied cotter pin. If the cotter pin does not line up, tighten the nut to the next available slot, do not loosen the nut.
9. Perform the same steps on the other side of the truck.
10. It is highly recommended to get the truck aligned at an alignment shop to fine tune the alignment.

Installation is complete!

